

10 PM Current Affairs Quiz Compilation

July, 2021

10 PM Compilation for the Month of July, 2021

Science and Technology

Q.1) Consider the following statements regarding **Unmanned Aerial Vehicles (UAV)**

1. UAVs cannot be detected by radar system.
2. UAVs are regulated by the Ministry of Defense in India

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct answer: A

UAVs are generally called **attackers delight and defender's nightmare** for the following reasons,

1. UAVs have no restriction on the terrain nor the condition of the environment.
2. Drones fly low and therefore cannot be detected by any radar system because they are small and do not have much radar cross-section.
3. Difficult to detect also means **difficult to engage** as well.
4. They **do not match** the **cost of the kill vs the cost of the target**. For example, killing the \$1000 UAV with the Million \$ sophisticated missile. So, the defender **needs soft kill systems** like LASER, Radio Frequency jamming and Electronic Jamming etc.

Director General of Civil Aviation (DGCA) under the civil aviation ministry is regulating the UAVs in India.

Source: [The Indian Express](#) and [The Hindu](#)

Q.2) Consider the following statements regarding **Agni Prime missile**

1. It is a canisterised missile with range capability between 1,000 and 2,000 km.
2. The Agni-P will replace the Prithvi, Agni-1 and Agni-2 missiles

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct answer: C

Explanation:

The DRDO has successfully flight tested a New Generation Nuclear Capable Ballistic Missile Agni P from Dr APJ Abdul Kalam island off the coast of Odisha.

About Agni Prime missile:

- Agni P is a canisterised based missile. Canisterisation of missiles reduces the time required to launch the missile while improving its storage and mobility,
 - This means that it can be launched from rail and road and stored for a longer period. It can also be transported across the length and breadth of the country.
- **Weight:** The missile weighs 50% less than Agni III and has new guidance and a new generation of propulsion.

10 PM Compilation for the Month of July, 2021

- **Range:** The missile has a range between 1000km to 2000km. It has been developed specifically to strike targets in Pakistan. Its range is too short to reach targets in the Chinese mainland.
- The **Agni-P will replace the Prithvi, Agni-1 and Agni-2 missiles** that were built two decades ago with technologies that are now considered outdated.

Source: [PIB](#)

Q.3) Sea Guardian often seen in the news is related to which of the following?

- a) Nuclear-powered submarine
- b) An Unmanned Aerial Vehicle
- c) Advanced Research Vessel
- d) Stealth guided missile destroyer

Correct Answer: B

Explanation

- Sea Guardian, is the maritime variant of the Predator MQ-9 Unmanned Aerial Vehicle (UAV) of USA.

Q.4) Project Devil as seen in news is related to which of the following?

- a) Integrated Guided Missiles Development Programme
- b) Surveillance and intelligence monitoring by RAW
- c) Development of stealth frigates for Indian Navy
- d) Indigenous manufacturing of armored vehicles

Correct Answer A

Explanation:

- In 1972, Project Devil, for the development of a medium range Surface-to-Surface Missile was initiated. A large number of infrastructure and test facilities were established during this period.
- The main facilities established during this period included Aerodynamic, Structural and Environmental test facilities, Liquid and Solid propulsion facilities; fabrication and engineering facilities; Control, Guidance, FRP, Rubber component facilities, computer centers, ground and flight instrumentation and onboard power supplies development facilities. The development of components / systems for Project Devil formed the technology base for the future **IGMDP Programme**.

Source: [Article](#)

Q.5) Consider the following pairs.

Types of hydrogen : Produced using

1. Green hydrogen : Electrolysis of water using renewable energy
2. Brown hydrogen : Produced from natural gas
3. Grey hydrogen : Coal where the emissions are released to the air

Which of the above pairs is matched correctly?

- a) 1 only
- b) 1 and 2 only
- c) 1 and 3 only
- d) 1, 2 and 3

10 PM Compilation for the Month of July, 2021

Correct Answer: A

Explanation:

According to the International Renewable Energy Agency (IRENA), hydrogen will make up 12% of the energy mix by 2050. Hydrogen is one of the most abundant elements on earth for a cleaner alternative fuel option.

Type of hydrogen depend up on the process of its formation.

- **Green hydrogen:** It is produced by electrolysis of water using renewable energy (like Solar, Wind) and has a lower carbon footprint.
- **Brown hydrogen:** It is produced using coal where the emissions are released to the air.
- **Grey hydrogen:** It is produced from natural gas where the associated emissions are released to the air.
- **Blue hydrogen:** It is also produced from natural gas. But the emissions are captured using carbon capture and storage.

Source: [Down To Earth](#)

Q.6) Indrajeal was sometimes seen in the news. Which of the following statements correctly explains it?

- a) It is India's maritime exercise with African nations
- b) It is India's aquatic show performed in the UK to improve India-UK ties.
- c) It is India's first indigenous drone defence dome has the capability to autonomously protect an area of 1000-2000 sq km
- d) It is India's first inland river museum that was planned in the banks of Ganga

Correct Answer: C

Explanation

Hyderabad-based technology R&D firm Grene Robotics has designed and developed India's first indigenous drone defence dome called "Indrajeal".

About Indrajeal:

- It has the capability to autonomously protect an area of 1000-2000 sq km against the aerial threats
- The ANTI-UAV systems will not only provide protection to defence bases but it will be beneficial for linear infrastructures like international borders against advanced weaponry.
- Salient Features:
 - Real-time situational awareness
 - Integrated and Intelligent meshed network
 - Integrated all current weapons suite and infrastructure
 - Honeycombed cell structure for seamlessly built
 - Synergic combination of 9-10 technologies
 - 24x7 persistent and autonomous monitoring, action and tracking

Source: [All India Radio](#)

Q.7) Consider the following statements:

1. Hydrogen production is mostly based on natural gas and coal.
2. India is expected to become a net exporter of green hydrogen from 2030.

Select the correct answer from the codes given below:

- a) 1 only
- b) 2 only

10 PM Compilation for the Month of July, 2021

- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation:

Both statements are correct

- **Statement 1 is correct:** Today's hydrogen production is mostly based on natural gas and coal, which together account for 95% of production.
- **Statement 2 is correct:** The Global Hydrogen Council has in a recent study classified India as a net exporter of green hydrogen from 2030, thanks to cheap renewable tariffs.

Source: [Article](#)

Q.8) Consider the following statements regarding DRDO's detect-and-destroy technology for drones:

1. It has the ability to both jam drone signals and then destroy it with lasers.
2. It can detect can detect micro drones too.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation:

The Defence Research and Development Organization (DRDO) has developed a **detect-and-destroy technology** for [drones](#), but it is **not yet into mass production**.

- The DRDO's **Counter-Drone System was deployed for VVIP protection** at the Republic Day parades in 2020 and 2021, the Prime Minister's Independence Day speech last year, and former US President Donald Trump's visit to Motera Stadium, Ahmedabad in 2020.
- The DRDO system, developed in 2019, has **capabilities for hardkill** (destroying a drone with lasers) and **softkill** (jamming a drone's signals). Its softkill range is 3 km and hardkill range between 150 m and 1 km.
- It has a **360° radar** that can detect **micro drones** up to 4 km, and other sensors to do so within 2 km.

Source: [Article](#)

Q.9) Consider the following statements regarding Quantum Computing

1. It employs the principles of quantum mechanics to store information in 'qubits'.
2. Quantum Computing can help in Computational Chemistry, Financial Portfolio Optimisation and Drug Design

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

10 PM Compilation for the Month of July, 2021

Correct answer: C

Explanation: A quantum computer employs the principles of quantum mechanics to store information in 'qubits' instead of the typical 'bits' of 1 and 0.

Qubits work faster because of the way such circuits are designed, and their assurance is that they can do intensive number-crunching tasks much more efficiently than the fastest comparable computers.

Potential applications include:

- Machine Learning
- Computational Chemistry
- Financial Portfolio Optimisation
- Logistics and Scheduling
- Drug Design
- Cyber Security

Read more: [Potential applications of Quantum Computing](#)

Source: [Livemint](#)

Q.10) Consider the following statements regarding **Lambda Variant**

1. The strain was first identified in Peru in December 2020.
2. India has not yet reported any case of LV.
3. It is declared as a 'variant of concern' by WHO.

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: A

Explanation: After the cases of Delta Variant of Covid-19 continuously rising, a new variant called Lambda Variant (LV) is emerging as a new threat. The strain was first identified in Peru in December 2020. Now around 81% of samples found to be carrying it in Peru. India has not yet reported any case of this new variant.

The LV has greater infectivity than the Alpha and Gamma variants (known to have originated in the UK and Brazil respectively).

The World Health Organisation (WHO) designated this variant seventh and the newest Variant of Interest (VOI).

Source: [The Indian Express](#)

Q.11) Consider the following statements regarding **Tocilizumab**

1. It is used to treat the cytokine storm condition in the body.
2. WHO approved the use of Tocilizumab for COVID-19 treatment.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

10 PM Compilation for the Month of July, 2021

Correct Answer: C

Explanation:

- Recently, The World Health Organization (WHO) has approved the use of **Interleukin-6 (IL-6) blockers** — tocilizumab and sarilumab — as part of COVID-19 management protocol.
 - IL-6 is an inflammatory marker that is responsible for a cytokine storm in the body, mostly in the second phase of COVID-19 infection.
 - In other words, when the immune system mounts a fight against SARS-CoV-2, at times, it starts attacking the body's other systems. This is known as inflammation. The inflammation is followed by a drop in oxygen saturation levels (hypoxia) and other complications.
 - An increase in IL-6 levels may lead to a progression of the disease towards a severe form.
- The WHO gave this recommendation on the basis of meta-analysis of 27 clinical trials for this drug conducted on 10,000 patients.
 - Tocilizumab already forms a part of the Indian government's COVID-19 treatment protocol, though as an off-label drug. As far as Indian protocol is concerned, the government says the patient must be severely ill, with ICU admission for 24-48 hours, to be prescribed this drug
- However, the Tocilizumab has extremely high price and poor availability.

Source: [Down To Earth](#)

Q.12) Consider the following statements regarding **Khadi Prakritik Paint**

1. It is an eco-friendly, non-toxic paint with anti-fungal, antibacterial properties.
2. Cow dung is the main ingredient of this paint
3. It is developed by the Department of Animal Husbandry.

Select the correct answer from the codes given below:

- a) 1 only
- b) 2 and 3 only
- c) 1 and 2 only
- d) 1, 2 and 3

Correct Answer: C

Explanation: Recently Minister for Road Transport and Highways & MSME has declared himself the "Brand Ambassador " of Khadi Prakritk Paint.

About Khadi Prakritk Paint

- It has been conceptualized by the Khadi and Village Industries Commission (KVIC) and later developed by Kumarappa National Handmade Paper Institute, Jaipur (a KVIC unit).
- **Key Characteristics:**
 - It is a first-of-its-kind eco-friendly, non-toxic paint with anti-fungal, antibacterial properties.
 - Based on **cow dung as its main ingredient**, the paint is cost-effective and odorless and has been certified by Bureau of Indian Standards.
 - The paint is free from heavy metals like lead, mercury, chromium, arsenic, cadmium and others.

Read more: [Khadi Prakritk Paint](#)

Source: [PIB](#)

10 PM Compilation for the Month of July, 2021

Q.13) Consider the following statements regarding **Vaccine Booster Shots**

1. The aim of booster shots is to increase the magnitude of protection by producing more antibodies
2. Only for the fully-vaccinated individual is eligible for booster shots
3. The World Health Organisation (WHO) has approved booster shots for Covid-19

Which of the statements given above is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: A

Explanation:

Recently, Pfizer and BioNTech have announced that they would seek regulatory authorization for a third booster dose of their Covid-19 vaccine

- A booster is a means of strengthening one's immune system against a particular pathogen.
- It may be exactly the same original vaccine, in which case its goal is to increase the magnitude of protection by producing more antibodies.
- These shots are only for the fully-vaccinated.
- Booster shots are yet to get a nod from the World Health Organisation (WHO).
- In fact, the WHO has expressed caution in encouraging third doses.

Source: [The Indian Express](#)

Q.14) Consider the following statements regarding **Kappa Variant of Covid-19**

1. This variant is first identified in India
2. It is recognised as a 'variants of concern' by the WHO.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: Recently, two cases of the Kappa variant of Covid-19 have been recorded in Uttar Pradesh (UP).

- According to the World Health Organisation (WHO), Kappa is one of the two Covid-19 variants, the other being Delta, first identified in India.
- It is still listed among 'variants of interest' and not 'variants of concern' by the WHO.

Source: [The Indian Express](#)

Q.15) Indian government has recently made the CoWIN platform an open-sourced platform. Which of the following is/are the benefit of **Open-Source applications**?

1. Cost saving
2. Better bug-fixing of application
3. Less collaboration between developers

Select the correct option from the code given below

10 PM Compilation for the Month of July, 2021

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: A

Explanation: CoWIN is the digital platform for the Covid-19 vaccination drive. Earlier this month, the government said that India would allow CoWIN to be an open-source for all countries to access, adapt and use, thereby becoming one of many countries that have open-sourced their government projects.

About Open-Source software:

Red Hat, the world's leading open-source software solutions company, explains open source as "a term that originally referred to open source software (OSS). **Open-source software is code that is designed to be publicly accessible** — anyone can see, modify, and distribute the code as they see fit.

Benefits of OSS:

- OSS is often **cheaper, more flexible**, and has **more longevity** than its proprietary peers because it is developed by communities rather than a single author or company.
- Software and bugs go hand-in-hand. Proprietary software does what is called 'blackbox' testing. In open-source, the code is open, which makes it possible for many more people to look at the code, and they can do a much better job than blackbox testing
- More collaboration, learning and development of OSS.

Source: [Business Standard](#)

Q.16) Consider the following statements regarding **Acute Encephalitis Syndrome (AES)**

1. It is transmitted by mosquitoes and is characterized by high fever and inflammation of the brain.
2. Japanese Encephalitis virus (JEV) is the major cause of AES in India

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation: The Jal Jeevan Mission (JJM) has provided tap water supply to more than 97 lakh households in five JE-AES (Japanese Encephalitis-Acute Encephalitis Syndrome) affected states. The five states with priority districts are Assam, Bihar, Tamil Nadu, Uttar Pradesh and West Bengal.

About Acute Encephalitis Syndrome (AES):

- Acute Encephalitis Syndrome(AES) also known as 'Chamki Fever' or Litchi Virus is an umbrella term used for infections that causes inflammation irritation or swelling on the brain.
- **Cause:** Viruses, bacteria, fungi and a range of agents. However, Japanese encephalitis (JE) virus is the most common cause of AES in India
- **Symptoms:** Acute onset of fever, change in mental status (mental confusion, disorientation, delirium, or coma) and new-onset of seizures.

10 PM Compilation for the Month of July, 2021

Read more: [Acute Encephalitis Syndrome](#)

Source: [PIB](#)

Q.17) Consider the following statements regarding Cassini-Huygens mission:

1. It is a joint collaboration between NASA, JAXA and ROSCOSMOS.
2. It was the first mission to orbit Saturn.
3. Huygens prob was the first human-made object to land on a world in the distant outer solar system.

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: B

Explanation:

- Statement 1 is incorrect: **The Cassini-Huygens mission** is a collaboration between NASA, ESA (European Space Agency), and the Italian Space Agency.
- Statement 2 & 3 are correct: Cassini-Huygens was a mission of firsts. First to orbit Saturn. First landing in the outer solar system. Also, first to sample an extraterrestrial ocean. the European Huygens probe—the first human-made object to land on a world in the distant outer solar system.

Source: [Article](#)

Q.18) Consider the following statements regarding African Swine Fever (ASF)

1. It is a zoonotic disease.
2. ASF is listed in the World Organisation for Animal Health (OIE) Terrestrial Animal Health Code.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: b

Explanation:

- **Statement 1 is incorrect:** ASF is not a threat to human beings, since it only spreads from animals to other animals.
- **Statement 2 is correct:** ASF is a disease listed in the World Organisation for Animal Health (OIE) Terrestrial Animal Health Code and must be reported to the OIE.

Source: [Article](#)

Q.19) Consider the following statements regarding Artemis Accords

1. It aims to ensure space exploration is conducted in a safe, sustainable and transparent manner.
2. India is a founding member of this accord

Which of the above statements is/are correct?

10 PM Compilation for the Month of July, 2021

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- Artemis Accords ensures that space exploration is conducted in a **safe, sustainable and transparent manner and in full compliance with international law**.
- The **founding members** of the Artemis Accords are **Australia, Canada, Italy, Japan, Luxembourg, United Arab Emirates, United Kingdom, and the US**.
- As more countries establish a presence in outer space, via research stations, satellites, or even rocket launchers, these **accords provide a set of principles** to create a safe and transparent environment that inspires exploration, science, and commercial activities.

Source: [The Business Standard](#)

Q.20) Consider the following statements regarding **Cryptogams**

1. They do not produce any reproductive structure like seed, or flower.
2. They present only in terrestrial ecosystem
3. Algae, bryophytes, lichens, ferns and fungi are the best-known groups of cryptogams.

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: C

Explanation: Recently, India's first cryptogamic garden was inaugurated in the Chakrata town of Dehradun, Uttarakhand.

About Cryptograms:

- The word "Cryptogamae" implies 'hidden reproduction', referring to the fact that they do not produce any reproductive structure, seed, or flower. Due to this, they are called "flowerless" or "seedless plants" or 'lower plants'.
- These are present in aquatic and terrestrial places.
- Algae, bryophytes, lichens, ferns and fungi are the best-known groups of cryptogams.

Source: [The Indian Express](#)

Q.21) Consider the following statements regarding **Volatiles Investigating Polar Exploration Rover (VIPER) Mission**

1. It will be the resource mapping mission on Martian Terrain
2. The Mission will be launched by NASA in 2023.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

10 PM Compilation for the Month of July, 2021

Correct Answer: B

Explanation: NASA has announced the launch of the Volatiles Investigating Polar Exploration Rover(VIPER) Mission in 2023.

About VIPER Mission:

- **VIPER Mission** is a mobile robot to be launched by NASA in the year 2023.
- **It will be the first** resource mapping mission on any other celestial body.
- **Celestial Body** is any natural body outside the Earth's atmosphere. Easy examples are the Moon, Sun, and the other planets of our solar system.

Objectives of the Mission:

- To get a closer view of the Moon's South Pole
- To evaluate the concentration of water as well as other potential resources on its surface
- To understand if it is possible for human life to sustain there, by using locally available resources.

Read more: [Volatiles Investigating Polar Exploration Rover\(VIPER\) Mission](#)

Q.22) Which of the following is/are the **potential hazard of Liquid Oxygen**

1. It can cause severe skin and eye irritation and burns as well as frostbite.
2. It can cause neurological syndrome
3. It can cause epilepsy-like convulsions and prolonged exposure will lead to death

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: D

Explanation: Liquid oxygen has a pale blue colour and is a cryogenic liquid. Cryogenic liquids are liquefied gases that have a normal boiling point below -238 degrees Fahrenheit (-150 degrees Celsius).

Hazards of Liquid Oxygen:

- Contact with liquid oxygen can cause **severe skin and eye irritation** and burns as well as **frostbite**.
- Similarly, Inhalation of 80 per cent oxygen at one atmospheric pressure for more than 12 hours can **cause irritation of the respiratory tract, nausea, dizziness, vision loss, coughing, chest pain** etc.
- A characteristic **neurological syndrome** can be observed when pure oxygen is inhaled at pressures greater than two or three atmospheres.
- Characteristic **epilepsy-like convulsions**, which may be preceded by visual disturbances such as loss of peripheral vision, also occur. Continued exposure can cause severe convulsions, **leading to death**.
- Some common materials like asphalt, kerosene, cloth, wood, paint, tar and dirt containing oil or grease can **react violently with liquid oxygen** at certain pressures and temperatures

But these **effects are reversible after reduction of oxygen pressure**.

Source: [Down to Earth](#)

10 PM Compilation for the Month of July, 2021

Q.23) Consider the following statements regarding Venus:

1. It's often called Earth's twin because it's similar in size and density.
2. It's the hottest planet in our solar system.
3. On Venus, the Sun rises in the west and sets in the east.

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: d

Explanation: All statements are correct:

- Venus is the second planet from the Sun and is Earth's closest planetary neighbor. It's one of the four inner, terrestrial (or rocky) planets, and it's **often called Earth's twin** because it's similar in size and density. These are not identical twins, however – there are radical differences between the two worlds.
- It's the **hottest planet in our solar system**, even though Mercury is closer to the Sun. Surface temperatures on Venus are about 900 degrees Fahrenheit (475 degrees Celsius) – hot enough to melt lead.
- Venus rotates on its axis backward, compared to most of the other planets in the solar system. This means that, **on Venus, the Sun rises in the west and sets in the east**, opposite to what we experience on Earth.

Source: [Article](#)

Q.24) Consider the following statements regarding Registration Convention:

1. The convention requires states to furnish to the United Nations with details about the orbit of each space object.
2. It is administered by NASA in collaboration with European Space Agency (ESA).

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- The Convention on Registration of Objects Launched into Outer Space (commonly known as the Registration Convention) was considered and negotiated by the Legal Subcommittee from 1962.
- It was **adopted by the General Assembly in 1974** and opened for signature on 14 January 1975 and entered into force on 15 September 1976.
- The convention requires states to furnish to the United Nations with details about the orbit of each space object. A registry of launchings was already being maintained by the United Nations as a result of a General Assembly Resolution in 1962.
- **Administered by:** The Registration Convention and four other space law treaties are administered by the **United Nations Committee on the Peaceful Uses of Outer Space (UN-COPUOS)**.

10 PM Compilation for the Month of July, 2021

- The registration includes the following information
 - The name of launching State
 - An appropriate designator of the space object or its registration number
 - Date and territory or location of the launch
 - Basic orbital parameters (Nodal period, Inclination, Apogee and Perigee)
 - The general function of the space object
- Information on registered objects is available at the United Nations Office for Outer Space Affairs (UNOOSA).

Source: [Article](#)

Q.25) Consider the following statements regarding **Solar power generation**

1. Rooftop solar panels are more efficient than floating solar panels
2. The Solar Park Scheme was launched by the Ministry of New & Renewable Energy

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

NTPC Renewable Energy Ltd (NTPC REL), a 100% subsidiary of NTPC, will set up the country's single largest solar park at Rann of Kutch in Gujarat.

- **Floating solar** refers to a solar power production installation mounted on a structure that floats on a body of water, typically an artificial basin or a lake.
- As opposed to conventional rooftop solar panels, floating ones perform between 5% to 15% better because of the cooling effect of the water, and are not impacted by shading from other buildings

About Development of Solar Parks and Ultra Mega Solar Power Projects Scheme

- **The Solar Park Scheme** was launched by the Ministry of New & Renewable Energy in 2014.
- **Under this scheme**, it was proposed to set up at least 25 Solar Parks and Ultra Mega Solar Power Projects. It aimed at over 20,000 MW of solar power installed capacity within a span of 5 years starting from 2014-15.
- **The capacity of the Scheme** has now been enhanced from 20,000 MW to 40,000 MW in 2017. The parks are also proposed to be set up by 2021-22.

Read more: [NTPC to build India's largest solar park in Rann of Kutch](#)

Source: [AIR](#)

Q.26) Consider the following statements regarding **Suborbital Flight**

1. Suborbital Flights occur when a spacecraft reaches space, but its velocity is such that it cannot orbit the Earth once they reach there.
2. The objects need to travel more than 28,000 km/hr to reach suborbital Flights.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2

10 PM Compilation for the Month of July, 2021

d) Neither 1 nor 2

Correct Answer: A

Explanation: Virgin Group founder Richard Branson and five others undertook a trip to the “edge of space”, and reached an altitude of 85 km from Earth before returning. Such a trip is called a Suborbital Flight.

- **Suborbital Flights** occur when a spacecraft reaches space, but its velocity is such that it cannot orbit the Earth once they reach there.

How does Suborbital Flight work?

- **When an object** travels at a horizontal speed of about 28,000 km/hr or more, it goes into orbit. **Satellites need to reach** that threshold speed in order to orbit Earth.
- **Any object** traveling slower than 28,000 km/hr must eventually return to Earth.
- **However**, Unity spacecraft traveled far enough to reach the “edge of space”. These are suborbital flights because they will not be traveling fast enough to orbit Earth once they reach there.

Read more: [Suborbital flight: Fast enough to reach space, not stay there](#)

Q.27) Consider the following statements regarding different types of Ultraviolet (UV) light:

1. UV-B has the ability to penetrate deeply into the dermis.
2. UV-C has the shortest wavelength and is the most harmful UV radiation.

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- **Statement 1 is incorrect:** UV A has the ability to penetrate deeply into the middle layers of our skin i.e. dermis
- **Statement 2 is correct:** UV C has the shortest wavelength and is almost completely absorbed by the Ozone.

Source: [Article](#)

Q.28) Consider the following statements regarding Vikas Engine

1. These are liquid fuelled rocket engines conceptualized and designed by the Liquid Propulsion Systems Centre(LPSC)
2. The engine is used in the Polar Satellite Launch Vehicle (PSLV) alone

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

10 PM Compilation for the Month of July, 2021

Correct Answer: A

Explanation: Indian Space Research Organisation (ISRO) has successfully conducted the third long-duration hot test of the liquid propellant Vikas engine for the Gaganyaan programme.

About Vikas Engine:

- **Vikas** is a family of liquid fuelled rocket engines conceptualized and designed by the Liquid Propulsion Systems Centre(LPSC) in the 1970s.
 - **LPSC** is a research and development centre functioning under Indian Space Research Organisation.
- **The engine is used in the** Polar Satellite Launch Vehicle (PSLV) and the Geosynchronous Satellite Launch Vehicle (GSLV) series of expendable launch vehicles for space launch use.
- **ISRO** tested the Vikas Engine this time as part of the engine qualification requirements for the Gaganyaan Mission.

Source: [ISRO successfully conducts test of Vikas Engine for Gaganyaan Program](#)

Q.29) Consider the following statements regarding Cytomegalovirus (CMV):

1. Virus remains asymptomatic in patients with normal immunity.
2. During pregnancy CMV infection can pass on the virus to their babies.
3. Humans can be infected by animal strains of CMV.

Which of the above statements are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: A

Explanation:

- **Statement 1 is correct: Cytomegalovirus (CMV)** is also known as Human Herpesvirus 5 (HHV-5). It is a common herpes virus that often causes natural infections in childhood and remains asymptomatic in patients with normal immunity.
 - **Once infected**, the virus is retained in the body for life. Most people don't realise that they have been infected by CMV because it rarely causes problems in healthy people.
 - **The symptoms** usually surface only when carriers become immuno-compromised, such as those suffering from cancer, AIDS, or those who have recently had transplants.
- **Statement 2 is correct:** Expecting mothers who develop an active CMV infection during pregnancy can pass on the virus to their babies, which is known as **congenital CMV**. Children born with it may or may not show symptoms.
- **Statement 3 is incorrect:** Humans cannot be infected by animal strains of CMV.

Source: [Article](#)

Q.30) James Webb telescope is often called as a successor to Hubble telescope. In this respect, consider the following statements:

1. It is an international collaboration between NASA, JAXA and ROSCOSMOS
2. It will be positioned at the second Lagrange point.

10 PM Compilation for the Month of July, 2021

3. It will primarily look at the universe in the infrared wavelength.

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: B

Explanation:

- **Statement 1 is incorrect:** It is an international collaboration between NASA, European Space Agency (ESA), and the Canadian Space Agency.
- **Statement 2 is correct:** Hubble is in a very close orbit around the earth, while Webb will be 1.5 million kilometers (km) away at the second Lagrange (L2) point.
- **Statement 3 is correct:** Webb will primarily look at the Universe in the infrared, while Hubble studies it primarily at optical and ultraviolet wavelengths (though it has some infrared capability)

Source: [Article](#)

Q.31) The terms Pirs, Zvezda & Nauka are related to which of the following?

- a) International Space Station
- b) CHIME Telescope
- c) Interstellar black hole
- d) Soyuz mission

Correct Answer: A

Explanation:

About Nauka Module:

- **Nauka** is the Russian word for 'Science'. It will serve as Russia's main research facility on the International Space Station (ISS).
- **The module will replace** Pirs, a Russian module on the ISS used as a docking port for spacecraft and as a door for cosmonauts to go out on spacewalks.
- **The module will bring** to the ISS another oxygen generator, a spare bed, another toilet, and a robotic cargo crane built by the European Space Agency (ESA).
- **On the ISS**, Nauka will be attached to the critical Zvezda module, which provides all the space station's life support systems and serves as the structural and functional center of the Russian Orbital Segment (ROS) — the Russian part of ISS.
- **Significance:** The Nauka Module is the biggest space laboratory Russia has launched to date.

Source: [Article](#)

Q.32) Consider the following statements regarding Gamma Rays

1. They are the highest-energy light in the universe.
2. On Earth, gamma rays are generated by nuclear explosions, lightning and radioactive decay.
3. Gamma rays are not harmful to life on Earth.

Which of the above statements is/are correct?

- a) 1 only
- b) 1 and 2 only

10 PM Compilation for the Month of July, 2021

- c) 3 only
- d) 1, 2 and 3

Correct Answer: B

Recently, a group of astronomers have detected a very short, powerful burst of high-energy radiation also known as Gamma-Ray Bursts (GRBs) that lasted for about a second. It was detected by National Aeronautics and Space Administration's (NASA's) Fermi Gamma-ray Space Telescope.

About Gamma Rays

- They are the highest-energy light in the universe. They can have over a billion times the energy of the type of light visible to our eyes.
- They are produced by the hottest and most energetic objects in the universe, such as neutron stars and pulsars, supernova explosions, and regions around black holes.
- On Earth, gamma rays are generated by nuclear explosions, lightning, and the less dramatic activity of radioactive decay.
- Gamma rays are so energetic that they are harmful to life on Earth.

Source: [PIB](#)

Q.33) Scoville scale sometimes seen in news is associated with?

- a) Estimation of wet bulb temperature in arid regions
- b) Evaluate purity of a gold sample
- c) Emission of Gamma radiation by Neutron stars
- d) Measurement of the capsaicin

Correct Answer: D

Explanation:

- The Scoville scale is a tool for measuring the spiciness or pungency of hot peppers. The scale measures the amount of capsaicin (the chemical compound that causes spicy heat) in a pepper and assigns it a number rating in Scoville Heat Units (SHUs).

Source: [Article](#)

Q.34) Consider the following statements regarding Khagolshala Asteroid Search Campaign (KASC)

1. It is an initiative of Indian Space Research Organisation (ISRO)
2. The high-quality astronomical data sets are distributed to students for analysis and identification of asteroids.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation: Recently Jawahar Navodaya Vidyalaya students have detected Eight Asteroids as part of the Khagolshala Asteroid Search Campaign 2021.

About Khagolshala Asteroid Search Campaign:

10 PM Compilation for the Month of July, 2021

- **Khagolshala Asteroid Search Campaign(KASC)** is an initiative of the [Office of Principal Scientific Adviser](#), Government of India, and SPACE Foundation.
- **The campaign** is the India chapter of an international student research program that has got students involved in the search for asteroids.
- **Under the campaign**, high-quality astronomical data sets are distributed to students through the **PANSTARRS** telescope for analysis and identification of asteroids.
- **The students then analyze** the data using software, which then leads to potential discoveries.
- **These observations** feed into the [Near-Earth Object\(NEO\)](#) data being compiled by NASA and the Jet Propulsion Lab (JPL).

Read more: [Jawahar Navodaya Vidyalaya students detect asteroids under Khagolshala Asteroid Search Campaign 2021](#)

Q.35) Consider the following statements about Lithium-Sulphur Batteries:

1. It is a type of rechargeable battery with lithium or lithium alloys as cathodic material and sulphur as anodic material.
2. Lithium-ion batteries are commonly used for portable electronics, electric vehicles and in aerospace applications.

Which of the above given statement is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation:

Statement 1 is incorrect

- It is a type of rechargeable battery with lithium or lithium alloys as anodic material and sulphur as cathodic material.

Advantages:

- lower cost of production due to use of sulphur,
- capable of storing up to 10 times more energy than lithium-ion ones
- energy efficient
- improved safety

Disadvantages: battery physically breaks apart under the stress from repeated charging and discharging of the battery

Q.36) Consider the following statements regarding Small Satellite Launch Vehicle (SSLV)

1. They are cost-effective, three-stage, all-solid launch vehicles
2. It was developed by the Defence Research and Development Organisation.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

10 PM Compilation for the Month of July, 2021

Correct Answer: A

Explanation: Indian Space Research Organisation (ISRO) is scheduled to launch a geo-imaging satellite named “EOS-03” in the third quarter of 2021.

About Small Satellite Launch Vehicle(SSLV):

- **SSLV** is a small-lift launch vehicle being developed by the Indian Space Research Organisation (ISRO).
- **Features:** They are cost-effective, three-stage, all-solid launch vehicles with a payload capability of 500 kg to 500 km planar orbit or 300 kg to Sun-Synchronous Polar Orbit.
- **Benefits:** SSLV is ideal for the on-demand, quick turn-around launch of small satellites.
- **Launch Date:** The first developmental flight of SSLV is scheduled for the fourth quarter of 2021 from Satish Dhawan Space Centre, Sriharikota.

Read more: [Geo-imaging satellite “EOS-03” is scheduled for launch in third quarter of 2021](#)

Q.37) Near-Surface Shear Layer (NSSL) was sometimes seen in the news. It is related to which of the following in solar system?

- a) Earth
- b) Sun
- c) Jupiter
- d) Saturn

Correct Answer: B

Explanation: Indian astronomers have found a theoretical explanation for an intriguing layer named Near-Surface Shear Layer(NSSL).

What is a Near-Surface Shear Layer(NSSL)?

- **It has long been known** that the sun’s equator spins faster than the poles.
- **However, a peek into the internal rotation** of the sun using sound waves revealed the existence of an intriguing layer where its rotation profile changes sharply.
- **This layer** is called the near-surface shear layer(NSSL) and exists very close to the solar surface, **within which the angular velocity decreases rapidly with radius.**
- **Significance:** Understanding NSSL is crucial for the study of several solar phenomena like sunspot formation and solar cycle.

Read more: [Intriguing layer where internal rotation profile of Sun changes theoretically explained](#)

10 PM Compilation for the Month of July, 2021

International Relations

Q.1) Consider the following statements regarding **Digital Millennium Copyright Act (DMCA)**

1. It is the world's first law recognising Intellectual Property (IP) on the internet.
2. The DMCA oversees the implementation of two 1996 treaties signed by World Intellectual Property Organisation (WIPO) member nations.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct answer: C

Explanation:

Recently, The Union Minister for Electronics and Information Technology was locked out of his Twitter account for an hour allegedly over a notice received for violation of the Digital Millennium Copyright Act (DMCA).

Digital Millennium Copyright Act:

- **Digital Millennium Copyright Act or DMCA** is a 1998 law passed in the US and is among the world's first laws recognising intellectual property on the internet.
- **Purpose:** The law oversees the implementation of the two treaties signed and agreed upon by member nations of the World Intellectual Property Organisation (WIPO) in 1996.
 - Namely the WIPO Copyright Treaty and the WIPO Performances and Phonograms Treaty.

Source: [Indian Express](#)

Q.2) Consider the following statements regarding **OECD-G20 framework for a global minimum tax**

1. Companies with Euro 20 billion revenues and a profit margin above 10 percent would be taxed in jurisdictions
2. The pact will bring the top 5000 digital companies into the global taxation pact.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: India recently joined the OECD-G20 framework for a global minimum tax. But the deal will bring certain challenges to India.

Under the agreed outline of the OECD multilateral solution, a portion of profits of companies with Euro 20 billion revenues and a profit margin above 10 percent would be taxed in jurisdictions where they have sales

What India and other developing countries demanding?

India and other developing countries were fighting to include companies with at least Euro 1 billion in revenues as against the final proposal of Euro 20 billion revenues and a profit margin above 10 per cent. This will cover at least 5,000 global entities.

10 PM Compilation for the Month of July, 2021

Source: [Business Standard](#)

Q.3) Consider the following statements regarding **Heart of Asia-Istanbul Process**

1. It is a regional initiative of Pakistan and the Republic of Turkey.
2. The process aims to promote economic and political cooperation for Afghanistan peace through dialogue and confidence-building measures (CBMs).
3. India is one of the participating countries of the process

Which of the statements given above is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: B

Explanation:

About Heart of Asia-Istanbul Process:

- **Heart of Asia Istanbul Process** is a regional initiative of Afghanistan and the Republic of Turkey. It was launched in November 2011 in Istanbul, Turkey.
- The process **aims to promote** economic and political cooperation for Afghanistan peace through dialogue and confidence-building measures (CBMs).
- **Composition:** The platform comprises 15 participating countries, 17 supporting countries, and 12 supporting regional and international organizations.
 - **India** is one of the participating countries and India co-hosted the 6th Heart of Asia Ministerial Conference in Amritsar, Punjab in 2016.
 - Other participating countries are Afghanistan, Azerbaijan, China, India, Iran, Kazakhstan, Kyrgyzstan, Pakistan, Russia, Uzbekistan, Saudi Arabia, Tajikistan, Turkey, Turkmenistan, United Arab Emirates

Source: [The Indian Express](#)

Q.4) Quad-plus often seen in news includes which of the following countries?

1. Brazil
2. Israel
3. Malaysia

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: A

Explanation:

- Quad-plus formulation (Including Brazil, Israel, New Zealand, South Korea, and Vietnam apart from Quad members)

Source: [Article](#)

10 PM Compilation for the Month of July, 2021

Q.5) Consider the following statements regarding **Leaders Summit on Climate**

1. It was hosted by the French President on Earth Day.
2. India-U.S. climate and clean energy Agenda 2030 Partnership was announced at this Leaders Summit

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

About Leaders Summit on Climate:

- **Leaders Summit on Climate** is a conference hosted by the United States(US) President on Earth Day.
- **The summit coincides** with the fifth anniversary of the opening of the **Paris Agreement** on climate change for signature.
- **Further, the summit** is also a precursor to the United Nations Climate Change Conference (COP26) that will take place later this year in Glasgow.
- **India-U.S. climate and clean energy Agenda 2030 Partnership** was announced at this Leaders Summit on Climate.
- **Goals of the Partnership:**
 - Firstly, to mobilise finance and speed clean energy deployment;
 - Secondly, to demonstrate and scale innovative clean technologies needed to decarbonise sectors including industry, transportation, power, and buildings.
 - Thirdly, to build capacity to measure, manage and adapt to the risks of climate-related impacts.

Read more: [Article](#)

Source: [The Hindu](#)

Q.6) Consider the following statements regarding **Somatic cells:**

1. They are used by sexually reproducing organisms to pass on genes from generation to generation.
2. Being diploid, they contain two sets of chromosomes.

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- **Statement 1 is incorrect:** Sexually reproducing organisms use germ cells, not somatic cells, to pass on genes from generation to generation.
- **Statement 2 is correct:** Somatic cells are diploid, meaning that they contain two sets of chromosomes, one inherited from each parent.

Source: [Article](#)

10 PM Compilation for the Month of July, 2021

Q.7) Consider the following statements regarding a Red Corner Notice:

1. A red corner notice is an international arrest warrant.
2. INTERPOL publishes a Red Corner Notice at the request of a member country.
3. Each member country decides what legal value it gives to a Red Corner Notice.

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: B

Explanation:

- **Statement 1 is incorrect:** A red corner notice is not an international arrest warrant. It is an international wanted persons notice.
- **Statement 2 is correct:** Red Notices are published by INTERPOL at the request of a member country, and must comply with INTERPOL's Constitution and Rules.
- **Statement 3 is correct:** INTERPOL cannot compel the law enforcement authorities in any country to arrest someone who is the subject of a Red Notice. Each member country decides what legal value it gives to a Red Notice and the authority of their law enforcement officers to make arrests.

Source: [Article](#)

Q.8) Durand Line sometimes seen in news is a border between?

- a) India and China
- b) Afghanistan and India
- c) India and Bhutan
- d) Afghanistan and Pakistan

Correct Answer: D

Explanation:

- The Durand Line is the 2,640-kilometer (1,640-mile) border between Afghanistan and Pakistan. It's the result of an agreement between Sir Mortimer Durand, a secretary of the British Indian government, and Abdur Rahman Khan, the emir, or ruler, of Afghanistan. The agreement was signed on November 12, 1893, in Kabul, Afghanistan.
- The Durand Line as served as the official border between the two nations for more than one hundred years, but it has caused controversy for the people who live there.

Q.9) Consider the following statements regarding Global Education Coalition (GEC):

1. It has been launched by World Bank in collaboration with NITI Aayog.
2. It aims to provide education remotely using both low-tech and no-tech approaches.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

10 PM Compilation for the Month of July, 2021

Correct Answer: B

Explanation:

- **Statement 1 is incorrect:** The Global Education Coalition has been launched by the United Nations Educational, Scientific and Cultural Organization (UNESCO).
- **Statement 2 is correct:** It aims to help countries in mobilizing resources and implementing innovative and context-appropriate solutions to provide education remotely, leveraging hi-tech, low-tech and no-tech approaches

Source: [Article](#)

Q.10) Cairo Consensus was recently seen in the news. Which of the following statements are related to the Cairo Consensus?

- a) The consensus aims to reduce global warming in African Countries
- b) The consensus aims to take welfare-based approach for population control
- c) The consensus aims to increase funding for Infrastructure projects in Low- and Middle-income countries
- d) The consensus aims to provide free vaccine for low- and marginal-income populations.

Correct Answer: B

Explanation: The 1994 International Conference on Population and Development (ICPD) articulated a bold new vision about the relationships between population, development and individual well-being. The conference was held in Cairo.

During the conference, 179 countries adopted a forward-looking, **20-year Programme of Action** (extended in 2010) that continues to serve as a **comprehensive guide to people-centred development progress**. It was also called as **Cairo Consensus**.

The Cairo Consensus called for the **promotion of reproductive rights, empowering women, universal education, maternal and infant health to untangle the knotty issue of poverty and high fertility**. The consensus also demands an increase in the rate of modern contraceptive prevalence, male contraception.

Source: [International Conference on Population and Development, 1994](#)

Q.11) Consider the following statements regarding International Energy Agency (IEA):

1. It was established within the framework of the Organization for Economic Cooperation and Development (OECD).
2. International Renewable Energy Agency (IRENA) is a part of the IEA.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: a

Explanation:

- Statement 1 is correct
- Statement 2 is incorrect: IRENA is a separate organization.

Source: [Article](#)

10 PM Compilation for the Month of July, 2021

Q.12) Which of the following countries are a part of China-led South Asian initiative?

1. Maldives
2. Bangladesh
3. Nepal

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: b

Explanation:

About China-led South Asian initiative

Initiative includes **China-South Asian Countries Emergency Supplies Reserve**, and a **Poverty Alleviation and Cooperative Development Centre**. They were set up in China on July 8.

• **Member countries:**

- China
- Afghanistan
- Bangladesh
- Nepal
- Pakistan
- Sri Lanka

• **India, Bhutan** and the **Maldives** are the only SAARC countries not a part of the China-led initiative

Q.13) Which of the following military exercise(s) is/are correctly matched to the participant country(s)?

1. Konkan – UK
2. Khanjar – Kazakhstan
3. Desert Knight – France

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: c

Explanation:

- Khanjar is between India & Kyrgyzstan

Source: [Article](#)

Q.14) Consider the following statements regarding Historic Urban Landscape Project:

1. Project is based on the entire human environment with all of its tangible and intangible qualities.
2. Indian cities of Ajmer, Varanasi and Gwalior have been selected under this project.

Which of the above statements is/are correct?

- a) 1 only

10 PM Compilation for the Month of July, 2021

- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: c

Explanation:

- **The Historic Urban Landscape Project** was adopted in 2011 by UNESCO's General Conference.
- **The project aims** for the inclusive and well-planned development of fast-growing historical cities while preserving the culture and heritage.

Gwalior and Orchha Cities under Historic Urban Landscape Project:

- **As part of the project**, these places will be jointly developed by UNESCO, the Government of India, and Madhya Pradesh.
- **The development and management plan** of these cities will be prepared by UNESCO.
- **All aspects including** history, culture, lifestyle, economic development, community development will be included in it.

Note: The six cities of South Asia, including Ajmer and Varanasi in India, are already involved in this project. Orchha and Gwalior have been included as the 7th and 8th cities.

Source: [Article](#)

Q.15) Exercise Ajeya Warrior is a joint military exercise between India and which of the following country?

- a) The United States of America
- b) The United Kingdom
- c) Japan
- d) Australia

Correct Answer: B

Explanation: Recently The Indian Navy took part in a bilateral Passage Exercise(PASSEX) with the UK Royal Navy Carrier Strike Group(CSG)-21 in the Bay of Bengal.

Other Exercises between India and UK:

- **Exercise Indradhanush:** It is a joint bilateral air exercise between India and the UK started in 2006.
- **Exercise Konkan:** It is an annual maritime bilateral exercise between the Indian Navy and the Royal Navy of Britain.
- **Exercise Ajeya Warrior:** It is a joint military exercise between India and the UK. It was held for the first time in 2013.

Read more: [Indian Navy exercise with UK's Royal Navy carrier strike group](#)

Q.16) Consider the following statements regarding Nord Stream 2 Pipeline

1. The pipeline is intended to provide Europe with a sustainable gas supply while providing Russia with more direct access to the European gas market
2. It is a 1200 km pipeline that runs from Russia to Portugal
3. The pipeline will run along with the already-completed Nord Stream 1 system

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only

10 PM Compilation for the Month of July, 2021

- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: C

Explanation: Recently, the US has approved the Germany-Russia Nord Stream 2 Pipeline (NS2P) project - which significantly increases Europe's energy dependence on Russia.

Nord Stream 2 Pipeline:

- It is a 1,200km-long offshore natural gas pipeline being constructed from Russia to Germany across the Baltic Sea.
- The pipeline will run along with the already-completed Nord Stream 1 system, and the two together will supply an aggregate of 110 billion cubic metres of gas to Germany per year.
- The pipeline is intended to provide Europe with a sustainable gas supply while providing Russia with more direct access to the European gas market.

Read more: [Nord Stream 2 pipeline between Germany and Russia](#)

Source: [Indian Express](#)

Q.17) Consider the following statements regarding International Seabed Authority (ISA)

1. It was established by the United Nations Convention on the 'Law of the Sea' (UNCLOS)
2. The main activity of ISA is to regulate the exploration of poly-metallic nodules.
3. India is not a member of ISA

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: A

Explanation:

- The ISA was established in 1982 by UNCLOS (United Nations Convention on the 'Law of the Sea') and is an autonomous intergovernmental body with 167 members.
- ISA is the institution through which Parties to UNCLOS design and control all the mineral-related resources activities in the area.
- The main activity of ISA is to regulate the exploration of poly-metallic nodules.

India actively participates in the work of the International Seabed Authority. India was re-elected as a member of ISA in 2020.

Read more: [International Seabed Authority \(ISA\)](#)

Q.18) Consider the following statements regarding **Emigration Act**

1. The Act sets up a mechanism for hiring Indians seeking employment in abroad
2. The Act establishes a government review of workers travel and employment documents to all countries.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

10 PM Compilation for the Month of July, 2021

Correct Answer: A

Explanation: Labour migration is governed by the **Emigration Act, 1983**.

- The Act **sets up a mechanism for hiring** through government-certified recruiting agents - individuals or public or private agencies.
- The Act outlines **obligations for agents to conduct due diligence of prospective employers**.
- It also sets up a **cap on service fees** and **establishes** a government review of worker travel and employment documents (known as **emigration clearances**) to 18 countries. These include mainly in West Asian states and South-East Asian countries.

Source: [The Hindu](#)

Q.19) Consider the following statements regarding International Council on Monuments and Sites (ICOMOS)

1. It acts as an advisory body of the World Heritage Committee for the implementation of the World Heritage Convention.
2. It was established by UNESCO for the conservation and protection of cultural heritage places.

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation:

- **Statement 1 is correct:** ICOMOS is an Advisory Body of the World Heritage Committee for the implementation of the World Heritage Convention of UNESCO. As such, it reviews the nominations of cultural world **heritage** and ensures the conservation status of properties.
- **Statement 2 is incorrect:** ICOMOS works for the conservation and protection of cultural heritage places. It is the only global non-government organisation of this kind, which is dedicated to promoting the application of theory, methodology, and scientific techniques to the conservation of the architectural and archaeological heritage.

Source: [Indian Express](#)

Q.20) CRIMARIO project sometimes seen in news is related to?

- a) Improving security and safety in the wider Indian Ocean
- b) Detecting criminal activities on military bases.
- c) Using AI for the exploration of India's maritime zone.
- d) Anti-drone safety system being developed by DRDO

Correct Answer: A

Explanation:

- The CRIMARIO Project was launched by the European Union (EU) in 2015.
- The project aims to improve maritime security and safety in the wider Indian Ocean, with a particular focus on selected countries and archipelagos in East Africa.

Source: [PIB](#)

10 PM Compilation for the Month of July, 2021

Q.21) Consider the following statements regarding **United Nations Convention of the Rights of Persons with Disabilities**.

1. The convention is legally binding.
2. India has not ratified the convention so far.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

The UN Convention on the Rights of Persons with Disabilities was adopted in 2007 as the first major instrument of human rights in the 21st century.

- It defines persons with disabilities as those who have long-term physical, mental, intellectual or sensory impairments which in interaction with various barriers may hinder their full and effective participation in society on an equal basis with others.
- The convention is legally binding
- India **ratified the convention** and enacted the Rights of Persons with Disabilities Act, 2016

Read more: [UN Convention on the Rights of Persons with Disabilities](#)

Q.22) Consider the following statements regarding **Exercise Cutlass Express 2021**

1. It is an annual maritime exercise, conducted to promote national and regional maritime security in East Africa and the Western Indian Ocean.
2. India did not participate in the exercise

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: Indian Naval Ship Talwar is participating in a multinational training Exercise named "Cutlass Express 2021". It is being conducted along the East Coast of Africa.

About Exercise Cutlass Express:

- **Exercise Cutlass Express** is an annual maritime exercise, conducted to promote national and regional maritime security in East Africa and the Western Indian Ocean.
- **The exercise is designed** to assess and improve combined maritime law enforcement capacity, promote national and regional security and increase interoperability between the regional navies.

Read more: [Indian Naval Ship Talwar in Mombasa to Participate in Exercise Cutlass Express 2021](#)

10 PM Compilation for the Month of July, 2021

Q.23) Consider the following pair of military exercises with India

Military exercise - Participating country

1. Indra - Russia
2. Shakti - Nepal
3. Ekuverin - Maldives

Which of the above statements is/are correct?

- a) 1 only
- b) 1 and 3 only
- c) 3 only
- d) 1, 2 and 3

Correct Answer: B

Explanation: The 12th Edition of Indo-Russia joint military Exercise INDRA will be held at Volgograd, Russia in August 2021.

Military exercise - Participating country

1. Indra - Russia
2. Shakti - France
3. Ekuverin - Maldives
4. Surya Kiran - Nepal

Source: [PIB](#)

10 PM Compilation for the Month of July, 2021

Government Schemes and Initiatives

Q.1) Consider the following statements regarding **National Technical Research Organisation (NTRO)**

1. It is under the Ministry of Science and Technology
2. National Critical information Infrastructure Protection Centre (NCIIPC) operates under the NTRO

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct answer: B

Explanation:

The National Technical Research Organisation (NTRO) was established in 2004. It is under the National Security Advisor in the Prime Minister's Office. The NTRO focuses on intelligence gathering.

- The agency specializes in multiple disciplines. This includes remote sensing, data gathering and processing, cyber security, geospatial information gathering, cryptology, etc.
- The National Critical information Infrastructure Protection Centre (NCIIPC), an agency under the control of NTRO.
- NTRO has the same "norms of conduct" as the Intelligence Bureau (IB) and the Research and Analysis Wing (R&AW).

Source: [The Indian Express](#)

Q.2) Consider the following statements regarding **National Small Savings Fund (NSSF):**

1. Money in the NSSF is used by the Centre to finance their fiscal deficit.
2. All states in India use the NSSF fund for their financing needs except Kerala, Delhi, Arunachal Pradesh, and Madhya Pradesh

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct answer: C

Explanation

Both statements are correct

- The National Small Savings Fund (NSSF) is a fund body, which pools money from various small saving schemes. It was established in 1999 within the Public Account of India. It is administered by the Ministry of Finance, Government of India, under the National Small Savings Fund (Custody and Investment) Rules, 2001, derived from Article 283(1) of the Constitution.
- NSSF combines the collections obtained from different small saving schemes. The pool from all such schemes is credited to the NSSF and withdrawals under small saving schemes by depositors are made from this Fund.

10 PM Compilation for the Month of July, 2021

- Further, the money parked in the NSSF is used by the Centre and states to finance their fiscal deficit, while the balance is invested in central and state government securities.
- As per the recommendations of the Fourteenth Finance Commission, all states in India use the NSSF fund for their financing needs except Kerala, Delhi, Arunachal Pradesh, and Madhya Pradesh as these states get loans at lower rates of interest.

Source: [Article](#)

Q.3) Consider the following statements with respect to Pradhan Mantri Kisan Samman Nidhi (PM-KISAN):

1. Pradhan Mantri Kisan Samman Nidhi (PM-KISAN) is a Central Sector Scheme with funding from both State Governments and Central Government of India
2. Under the Scheme, income support of Rs.6000 per year is provided to all farmer families
3. The responsibility of identification of beneficiary farmer families rests with the State/UT Governments

Which of the above statements is/are correct?

- a) 1 only
- b) 1 and 2 only
- c) 2 and 3 only
- d) 1, 2 and 3

Correct Answer: C

Explanation:

- Pradhan Mantri Kisan Samman Nidhi (PM-KISAN) is a Central Sector Scheme with 100% funding from Government of India. It was announced in February 2019. Under the Scheme, income support of Rs.6000/- per year is provided to all farmer families across the country in three equal instalments of Rs.2000/- each, every four months. The entire responsibility of identification of beneficiary farmer families rests with the State / UT Governments.
- The scheme is implemented by the Ministry of Agriculture and Farmers Welfare.

Q.4) Consider the following statements regarding National Automotive Test Tracks (NATRAX)

1. There is no limit to maximum speeds on its straight patches.
2. It has been developed under Ministry of Road Transport and Highways (MoRTH)

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: b

Explanation:

- NATRAX is one of the state-of-the-art automotive testing and certification centre under NATRiP, a flagship project of the Ministry of Heavy Industries, Govt of India planned under the Automotive Mission Plan launched by Government of India.
- The track has been designed for neutral speeds up to 250 kmph and a maximum speed of up to 375 kmph on curves. There is no limit to maximum speed on the straight patch.

10 PM Compilation for the Month of July, 2021

- The zero-percent longitudinal slope makes this track an open-air test laboratory for precise measurement of the performance of vehicles.
- Moreover, the track is open to having vehicles from overseas being evaluated here as part of the testing process.

Source: [Article](#)

Q.5) Which of the following statements are correct regarding Fund for Industrial Research Engagement (FIRE) Program?

1. It will promote research in Artificial Intelligence (AI)/Machine Learning (ML).
2. All research projects will belong to defence sector

Answer using the codes given below

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

Statement 1 is correct. These projects will be in the space of Artificial Intelligence (AI)/Machine Learning (ML), platform systems, circuits & architecture, Internet of Things (IoT), security, and so on from edge to cloud.

Statement 2 is incorrect. The program intends to select highly impactful research projects in every cycle (typically once or twice a year) which have breakthrough potential at a national or global level.

Q.6) In which of the following railway station **first movable freshwater tunnel aquarium** has been opened?

- a) Chennai
- b) Delhi
- c) Allahabad
- d) Bengaluru

Correct Answer: D

Explanation:

Recently, Indian Railway (IR) has opened the first movable freshwater tunnel aquarium at Bengaluru Railway Station.

- The Krantivira Sangolli Rayanna Railway Station also known as Bengaluru City Railway Station has become the first railway station in India with a movable freshwater tunnel aquarium.
- The aquarium is a one-of-its-kind **aquatic park based on the Amazon River** (of South America) concept.
- This is a 12-foot long aquatic kingdom, **first paludarium** (vivarium that incorporates both terrestrial and aquatic elements) **with myriad flora and fauna**.
- It is home to various aquatic animals such as alligator gar ranging, stingrays, sharks, lobsters, snails and shrimps. The aquarium is adorned with natural rocks and splashes of driftwood, artificial coral rocks.

10 PM Compilation for the Month of July, 2021

Source: [Indian Express](#)

Q.7) Consider the following statements regarding Reform Based Power Distribution Scheme:

1. A pre-defined financial assistance under the scheme will be provided based on the condition of a discom.
2. Artificial Intelligence would be used to analyse data generated to enable DISCOMs to make informed decisions.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: b

Explanation:

- Statement 1 is wrong: The financial assistance under the Scheme will be based on meeting pre-qualifying criteria as well as upon achievement of basic minimum benchmarks by the DISCOM.
- Statement 2 is correct: Artificial Intelligence would be used to analyze data generated to enable DISCOMs to make informed decisions.

Source [Article](#)

Q.8) Consider the following statements regarding an anti-methanogenic feed supplement 'Harit Dhara' (HD)

1. It is prepared using condensed and hydrolysable tannin-rich plant-based sources abundantly available in the country.
2. It is developed by Indian Council of Agricultural Research (ICAR)

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct answer: C

Explanation:

- **Indian Council of Agricultural Research (ICAR)** institute has developed an anti-methanogenic feed supplement 'Harit Dhara'.
- **Harit Dhara is** prepared using condensed and hydrolysable tannin-rich plant-based sources abundantly available in the country.
- Tropical plants containing **tannins** (bitter and astringent chemical compounds) are known to suppress or remove protozoa from the rumen.
- Harit Dhara acts by decreasing the population of protozoa microbes in the rumen. Which is responsible for hydrogen production and making it available to the archaea for reduction of CO₂ to methane.

Source: [The Indian Express](#)

10 PM Compilation for the Month of July, 2021

Q.9) Consider the following statements regarding **Project BOLD** (Bamboo Oasis on Lands in Drought)

1. It seeks to create bamboo-based green patches in arid and semi-arid land zones.
2. It is implemented by the DARE (Department of Agricultural Research and Education)

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct answer: A

Explanation: Recently, the Khadi and Village Industries Commission (KVIC) launched a project named Bamboo Oasis on Lands in Drought (BOLD) from the village NichlaMandwa in Udaipur, Rajasthan.

- It is the first of its kind exercise in India. Project BOLD seeks to **create bamboo-based green patches in arid and semi-arid land zones.**
- 5000 saplings of special bamboo species – Bambusa Tulda and Bambusa Polymorpha specially brought from Assam – have been planted over 25 bigha (16 acres approx) of vacant arid Gram Panchayat land. KVIC has thus created a world record of planting the highest number of bamboo saplings on a single day at one location.

Source: [PIB](#)

Q.10) Consider the following statements regarding revised BharatNet Project:

1. Viability gap funding will be provided by the government.
2. Project will be implemented in all Indian states

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation: Both statements are correct

The revised BharatNet Project will be implemented through [Public-Private Partnership \(PPP\)](#) model with a total cost of ₹29,430 crores. Of this, the Government will provide the viability gap fund of ₹19,041 crores.

- **Viability Gap Fund** means a grant to support projects that are economically justified but not financially viable.

Aim: The project which initially aims to connect all the gram panchayats of the country through optic fiber for providing broadband services; it will now have two new components:

- **The first will be that** BharatNet will now extend up to all inhabited villages beyond the gram panchayats (GPs) in the 16 states.
- **Second,** the project will also now include the creation, upgradation, operation, maintenance, and utilization of BharatNet by the private sector partner who will be selected by a competitive international bidding process.

10 PM Compilation for the Month of July, 2021

Coverage: The 16 States covered under the project are: Kerala, Karnataka, Rajasthan, Himachal Pradesh, Punjab, Haryana, Uttar Pradesh, Madhya Pradesh, West Bengal, Assam, Meghalaya, Manipur, Mizoram, Tripura, Nagaland, and Arunachal Pradesh.

Source: [Article](#)

Q.11) Consider the following statements regarding **New IT Rules 2021 for social media**

1. Social media platforms has to compulsorily identify the first originator of the information in India, upon government or court order
2. Social media companies have to publish a weekly compliance report.
3. Significant social media intermediaries are social media platforms with a large user base.

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: C

Explanation:

- Social media companies are **prohibited from hosting or publishing any unlawful information**. This information is “in relation to the interest of the sovereignty and integrity of India, public order, friendly relations with foreign countries, etc”.
- **If such information is hosted or published the government can take down such information within 24 hours**. The user will be **given a notice** before his/her content is taken down.
- Traceability mechanism: This provision requires the **social media platforms to compulsorily identify the first originator of the information** in India, upon government or court order.
- Social media platforms are classified into **two categories**
 - **Social media intermediaries** – Platforms that have a limited user base.
 - **Significant social media intermediaries** – These are the platforms with a large user base.

Source: [Times of India](#)

Q.12) Consider the following statements regarding **NIPUN Bharat Mission:**

1. It aims to improve foundational literacy and numeracy of children in the age group of three to nine years.
2. It emphasizes the importance of using a child’s mother tongue in teaching.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation:

- **NIPUN Bharat Mission aims** to improve foundational literacy and numeracy of children in the age group of three to nine years.

10 PM Compilation for the Month of July, 2021

Key Features of the Mission:

- **Implementation:** The mission will be implemented by the Union Education Ministry in collaboration with states through the flagship school education program Samagra Shiksha.
- **Target:** The mission has set a target that by 2026-27, every Class 3 child should be able to read with understanding at the rate of at least 60 words per minute. Further, the child should be able to read and write numbers up to 9,999 and solve simple multiplication problems.
- **Survey:** A National Achievement Survey of Class 3 students will be conducted to set a baseline to track the future progress of the mission.
- **Mother Tongue:** The mission also emphasizes the importance of using a child's mother tongue in teaching, a principle of the National Education Policy 2020.

Source: [Article](#)

Q.13) Consider the following statements regarding National Program for Organic Production (NPOP):

1. It is implemented by Ministry of Agriculture.
2. Certification under NPOP is given through a process of third-party certification.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation:

- Statement 1 is incorrect: It was launched and is implemented by Ministry of Commerce and Industry.
- Statement 2 is correct
 - **Purpose:** NPOP grants organic farming certification to products through a process of third-party certification.
 - **The program also involves** the accreditation program for Certification Bodies, standards for organic production, promotion of organic farming and marketing, etc.
 - **Implementation:** It is implemented by the Agricultural and Processed Food Products Export Development Authority (APEDA), Ministry of Commerce and Industry.

Source: [Article](#)

Q.14) Consider the following statements regarding National Fisheries Development Board (NFDB):

1. It works under the administrative control of the Ministry of Agriculture and Farmers Welfare.
2. It is going to establish fish cryobanks in different parts of India in collaboration with National Bureau of Fish Genetic Resources (NBFGR).

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

10 PM Compilation for the Month of July, 2021

Correct Answer: A

Explanation:

- **Statement 1 is incorrect:** It was established in **2006** as an **autonomous organization** under the administrative control of the Ministry of Agriculture and Farmers Welfare.
 - Now, it works under the Ministry of Fisheries, Animal Husbandry and Dairying.
- **Statement 2 is correct:** NFDB and the **National Bureau of Fish Genetic Resources** (NBFGFR) will establish fish cryobanks in different parts of the country.
 - This would be the **first time in the world when Fish Cryobanks** will be established, enhancing fish production and increasing prosperity among the fish farmers.

Source: [Article](#)

Q.15) Project 523 sometimes seen in news is related to?

- a) Finding of antimalarial medications
- b) Development of Intercontinental Ballistic Missiles
- c) Human Genome technology
- d) Constuction of Suez Canal

Correct Answer: A

Explanation:

- Project 523 is a code name for a 1967 secret military project of the People's Republic of China to find antimalarial medications

Source: [Article](#)

Q.16) Consider the following statements regarding Press Council of India

1. It does not have the power to review the functioning of electronic media like radio, television and internet media.
2. They can penalize newspapers, news agencies, editors and journalists for violation of the guidelines.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- The Press Council of India was first set up in the year 1966 by the Parliament on the recommendations of the First Press Commission.
- **Aim:** To preserve the freedom of the press and maintain and improve the standards of the press in India.
- The present Council functions under the Press Council Act, 1978. It is a statutory, quasi-judicial authority functioning as a **watchdog of the press, for the press and by the press.**
- **Limitations of PCI:**

10 PM Compilation for the Month of July, 2021

- They cannot penalize newspapers, news agencies, editors and journalists for violation of the guidelines.
- The PCI **only overviews the functioning** of print media. It can enforce standards upon newspapers, journals, magazines and other forms of print media.
 - It **does not have the power to review the functioning** of electronic media like radio, television and internet media.

Read more: [Press Council of India \(PCI\)](#)

Source: [Times of India](#)

Q.17) Consider the following statements regarding **Lightning**

1. Increasing global temperature will increase the frequency of lightning
2. Intercloud or intracloud (IC) lightning is more dangerous than the Cloud to ground (CG) lightning

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

A study published in 2015 found out that, an increase of one degree Celsius would increase the frequency of lightning strikes by 12 percent.

Urbanisation, increased population and a warmer climate guarantee an intensification of human exposure to lightning hazards.

What is lightning?

Lightning is a very rapid and massive discharge of electricity in the atmosphere. It is the process of occurrence of a natural 'electrical discharge of very short duration and high voltage between a cloud and the ground or within a cloud.

- There are two types of lightning. Such as,
 - **Intercloud or intracloud (IC) lightning:** These are visible and harmless.
 - **Cloud to ground (CG) lightning:** This is harmful as the 'high electric voltage discharge for very short time leads to electrocution.

Source: [Down To Earth](#)

Q.18) Damini App was sometimes seen in the news. Which of the following is the potential application of the App?

- a) The App provides online registration and filing of Personal Income Tax from the upcoming year.
- b) The app interlinks all the government Covid-19 digital response including the CoWIN Platform
- c) It monitors the lightning occurrence all over India and alerts the user by a GPS based notification.
- d) The app provides information regarding the number of green plantations taken alongside the National Highways in India

10 PM Compilation for the Month of July, 2021

Correct Answer: C

Explanation: **Damini App** was developed by the Indian Institute of Tropical Meteorology (IITM-Pune) and Earth System Science Organization (ESSO) under the ministry of earth sciences.

- The app monitors the lightning occurrence all over India and alerts the user of lightning near them by a GPS notification under 20 km and 40 km.
- Further, the Damini app also triggers warning about lightning strikes **three hours in advance** which can help reduce losses to life and property.

Source: [PIB](#)

Q.19) Bryum Bharatiensis was sometimes seen in the news. Which of the following correctly explains it?

- a) It is a new snake species discovered in Western Ghats.
- b) It is a salt-secreting salt-tolerant mangrove species found in mangrove formations in India.
- c) It is a cold-blooded marine reptilian species
- d) It is a new plant species of moss discovered by Indian scientists in Antarctica

Correct Answer: D

Explanation: A team of Indian scientists has discovered a new plant species in Antarctica named **Bryum Bharatiensis**.

About Bryum Bharatiensis:

- **Bryum bharatiensis** is a species of moss. It was discovered by a team of researchers from the Central University of Punjab.
- **Mosses** are small, non-vascular flowerless plants in the taxonomic division Bryophyta. They are distributed throughout the world except in salt water and are commonly found in moist shady locations.
- **Named after:** The species has been named after Bharati, the Indian research station in Antarctica. The station itself was named after the Hindu goddess Bharati.

Read more: [Bryum Bharatiensis](#)

Q.20) Consider the following statements regarding Nyaya-Vikas-2.0:

1. It is an online monitoring system to track the pendency of cases in the Supreme Court.
2. It has been developed with technical assistance of ISRO.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation:

- **Statement 1 is incorrect:** Portal monitors the physical and financial progress of such judicial infrastructure projects by geo-tagging completed and ongoing infrastructure projects.
- **Statement 2 is correct:** It has been set up by Deptt of Justice with technical assistance from ISRO.

Source: [Article](#)

10 PM Compilation for the Month of July, 2021

Q.21) Consider the following statements regarding **Pilgrimage Rejuvenation and Spiritual, Heritage Augmentation Drive (PRASHAD) scheme**

1. The scheme aimed at infrastructure development such as entry points, last mile connectivity, basic tourism facilities and others
2. It is a Centrally Sponsored Scheme financed by the Central and State governments.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: PRASHAD projects were recently inaugurated in Varanasi, Uttar Pradesh.

About PRASHAD scheme:

- It is also called as the 'National Mission on Pilgrimage Rejuvenation and Spiritual, Heritage Augmentation Drive' (PRASHAD).
- It is a Central Sector Scheme fully financed by the Government of India.
- Launched by the Ministry of Tourism in the year 2014-15.
- Objective: Integrated development of identified pilgrimage and heritage destinations.
- It includes infrastructure development such as entry points (Road, Rail and Water Transport), last mile connectivity, basic tourism facilities.

Source: [PIB](#)

Q.22) Consider the following statements regarding CPGRAMS:

1. The system provides online access to all citizens including those in Armed Forces personnel to report their grievances.
2. Right to Information (RTI) matters are not taken up for redressal by CPGRAMS.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation:

Both statements are correct

- **Centralized Public Grievances Redress and Monitoring System (CPGRAMS)** is a web-based application developed by the National Informatics Centre(NIC) in association with the Directorate of Public Grievances(DPG) and the Department of Administrative Reforms and Public Grievances(DARPG).
- **Purpose:** The application aims to enable submission of grievances by the aggrieved citizens from anywhere and anytime (24×7) basis to Ministries who scrutinize and take action for speedy and favorable redress of these grievances.
- **Issues that are not taken up for redressal by CPGRAMS:**
 - Sub Judice cases or any matter concerning judgment given by any court.
 - Personal and family disputes.
 - RTI matters.

10 PM Compilation for the Month of July, 2021

- Anything that impacts upon territorial integrity of the country of friendly relations with other countries.

Source: [Article](#)

Q.23) Consider the following statements regarding School Innovation Ambassador Training Program:

1. It aims at training students in multiple areas including design thinking and IPR.
2. Program has been launched by Ministry of Human Resource and Development in collaboration with Microsoft.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: D

Explanation: Both statements are incorrect.

- **The School Innovation Ambassador Training Program** is a one of its kind training program for School Teachers.
- **Aim:** It aims at training 50,000 school teachers. The training areas will include Innovation, Entrepreneurship, IPR, Design Thinking, Product Development, Idea Generation, and many more.
- **This program has been designed** by the Innovation Cell of the Ministry of Education in collaboration with the All-India Council for Technical Education (AICTE).

Source: [Article](#)

Q.24) Consider the following statements regarding International Cooperation and Convention Centre – Rudraksh

1. The objective is to dedicate an ideal platform for social and cultural interactions between people
2. The centre has been built with the assistance from Japan International Cooperation Agency.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation: The Prime Minister has inaugurated the International Cooperation and Convention Centre – Rudraksh in Varanasi.

About Rudraksh:

- **Rudraksh** is an international cooperation and convention centre that will offer a glimpse of the cultural richness of Varanasi.
- **The centre has been built** with the assistance from Japan International Cooperation Agency.

10 PM Compilation for the Month of July, 2021

- **Purpose:** The centre has been developed with the objective to dedicate an ideal platform for social and cultural interactions between people and strengthen the city's competitiveness by developing the tourism sector.

Read more: [PM inaugurates the International Cooperation and Convention Centre – Rudraksh in Varanasi](#)

Q.25) Consider the following statements regarding **Indian Council of Agriculture Research**

1. It is an autonomous organisation under the Department of Agricultural Research and Education (DARE)
2. It is the apex body for coordinating, guiding and managing research and education in agriculture
3. It is headquartered at Mumbai

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: A

Explanation: Recently, the Indian Council of Agriculture Research (ICAR) celebrated its 93rd foundation day and on the occasion, the Kisan Sarthi platform was launched.

About Indian Council of Agriculture Research:

- It is an autonomous organisation under the Department of Agricultural Research and Education (DARE), Ministry of Agriculture and Farmers Welfare.
- It was established in July 1929 and was formerly known as the Imperial Council of Agricultural Research.
- It is headquartered at New Delhi.
- It is the apex body for coordinating, guiding and managing research and education in agriculture including horticulture, fisheries and animal sciences in the entire country.

Source: [PIB](#)

Q.26) Consider the following statements regarding **India Industrial Land Bank (IILB) Portal**

1. The portal serves as a one-stop solution to the free and easy accessibility of all industrial information
2. It was developed by Department of Commerce.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: The India Industrial Land Bank (IILB), a GIS-based portal, has seen a 30% increase in page views each month since April 2021.

- IILB portal is a GIS-enabled database of industrial areas/clusters to adopt a committed approach towards resource optimization, industrial upgradation and sustainability.

10 PM Compilation for the Month of July, 2021

- It was developed by the Department for Promotion of Industry & Internal Trade (DPIIT)
- The portal serves as a one-stop solution to the free and easy accessibility of all industrial information
- It also provides links to State GIS Portals and State Land Banks

Source: [PIB](#)

Q.27) Consider the following statements regarding 'Fast and Secure Transmission of Electronic Records' (FASTER) Scheme.

1. The scheme aims to ensure the timely release of prisoners from jail and uphold their dignity
2. The Government will instantly, directly, securely, and electronically transmit the bail orders to officials.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: The Chief Justice of India (CJI) announced the rollout of a new scheme called FASTER. It will ensure the timely release of prisoners from jail and uphold their dignity.

About FASTER:

- It stands for 'Fast and Secure Transmission of Electronic Records'.
- It would enable the Supreme Court (SC) to instantly, directly, securely, and electronically transmit bail and other orders to jail authorities, district courts, and High Courts.

Read more: [Bail orders will be sent instantly to jail authorities: SC](#)

Q.28) Consider the following statements regarding Clinical Establishments Act, 2010:

1. Laboratories offering diagnostic services are not covered under the definition of Clinical establishment.
2. Under the act, the central government shall establish a National Council of Clinical Establishments to maintain a national register of clinical establishments.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: b

Explanation:

- **Statement 1 is incorrect:** Clinical establishment" is defined as hospitals and clinics and similar facilities that offer treatment for illness in any recognised system of medicine (allopathy, yoga, naturopathy, Ayurveda, homoeopathy, Siddha and Unani). The definition also includes any laboratory which offers pathological, chemical and other diagnostic services.
- **Statement 2 is correct:** The central government shall establish a National Council of Clinical Establishments to
 - Determine the minimum standards of health care by a clinical establishment;

10 PM Compilation for the Month of July, 2021

- Classify them into categories;
- Maintain a national register of clinical establishments.

Source: [Article](#)

Q.29) Justice Amitava Roy panel was seen in news recently. The committee has been formed towards which of the following objective?

- a) Sub-categorization of Other Backward Classes
- b) Digital payments
- c) Prison reforms
- d) Co-operative societies

Correct Answer: C

Explanation:

Justice Amitava Roy panel on prison reforms:

In 2018, the Supreme Court-appointed this panel. The committee submitted its report on February 2020 with major recommendations includes

- For overcrowding
 - **Special fast-track courts** should be set up to deal with petty offences.
 - **Lawyers – prisoners ratio:** there should be **at least one lawyer for every 30 prisoners.**
- For Understaffing
 - The Supreme Court should pass directions to start the recruitment process against vacancies
 - There should be the use of video-conferencing for trial.
- For Prisoners
 - Every new prisoner should be allowed a **free phone call a day to his family members** to see him through his first week in jail.
 - Alternative punishments should be explored.

Read more: [State of Prisons in India – Explained, pointwise](#)

Q.30) Consider the following statements regarding **UMANG app**

1. It brings major government services ranging from Central to Local Government bodies on a single mobile app.
2. The app is developed by the Ministry of Electronics and Information Technology (MeitY) and National e-Governance Division (NeGD)

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation: Recently, The Ministry of Electronics & Information Technology(MeitY) has enabled map services in UMANG (Unified Mobile Application for New-age Governance) App through an MOU with MapmyIndia.

About UMANG app:

10 PM Compilation for the Month of July, 2021

- **UMANG mobile app** was launched in 2017. It is a Government of India single, unified, secure, multi-channel, multi-platform, multi-lingual, multi-service mobile app.
- **Purpose:** It brings major government services ranging from Central to Local Government bodies on a single mobile app. It is with a larger goal to make the government accessible on the mobile phones of citizens.
- **Developed by:** UMANG is developed by the Ministry of Electronics and Information Technology (MeitY) and National e-Governance Division (NeGD) to drive Mobile Governance in India.

Read more: [Ministry of Electronics & IT enables map services in “UMANG App”](#)

Q.31) Consider the following statements regarding **SMILE – Support for Marginalized Individuals for Livelihood and Enterprise scheme**.

1. It is a merged scheme of Comprehensive Rehabilitation of persons engaged in the Act of begging scheme and the Comprehensive Rehabilitation for Welfare of Transgender Persons Scheme
2. The scheme is formulated by the Ministry of Health and Family Welfare

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: Recently, The Ministry of Social Justice and Empowerment has formulated a scheme “SMILE – Support for Marginalized Individuals for Livelihood and Enterprise”.

About SMILE Scheme:

- Two Central Sector Schemes namely **Comprehensive Rehabilitation of persons engaged in the Act of begging** and **Comprehensive Rehabilitation for Welfare of Transgender Persons** have been merged in a single scheme named SMILE.
- **Focus areas:** Rehabilitation, provision of medical facilities, counselling, basic documentation, education, skill development, economic linkages and so on.
- The scheme would be implemented with the support of State/UT Governments/Local Urban Bodies, Voluntary Organizations, Community Based Organizations (CBOs), institutions and others.

Read more: [SMILE – Support for Marginalized Individuals for Livelihood and Enterprise formulated](#)

Q.32) “**Inequality Report 2021: India’s Unequal Healthcare Story**” report was released recently. Which of the following organisation has released the report?

- a) Indian Council of Medical Research (ICMR)
- b) Oxfam India
- c) NITI Aayog
- d) World Health Organization (WHO)

10 PM Compilation for the Month of July, 2021

Correct Answer: B

Explanation: Recently, [Oxfam](#) India released “**Inequality Report 2021: India’s Unequal Healthcare Story**”. Oxfam India’s inequality report draws attention to the country’s unequal healthcare story hit further by Covid-19.

The report shows that the constant underfunding of the public healthcare system in the last decade have worsened health infrastructure.

Read more: [India’s health inequality made worse by reduced health budget: Oxfam report](#)

Q.33) Consider the following statements regarding Swadesh Darshan Scheme

1. It is a centrally sponsored scheme.
2. It aims to generate livelihood by promoting culture and heritage in identified regions.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: b

Explanation:

- **Swadesh Darshan Scheme** was launched by the Ministry of Tourism in 2014-2015
- **Aim:** It is a Central Sector Scheme with the objective of integrated development of theme-based tourist circuits in the country.
- **Objectives:**
 - **position tourism** as a major engine of economic growth and job creation
 - **Develop circuits** having tourist potential in a planned and prioritized manner;
 - **Promote cultural** and heritage value of the country to generate livelihoods in the identified regions.
- **Thematic Circuits under Scheme:** North-East India Circuit, Buddhist Circuit, Himalayan Circuit, Coastal Circuit, Krishna Circuit, Desert Circuit, Tribal Circuit, Eco Circuit, Wildlife Circuit, Rural Circuit, Spiritual Circuit, Ramayana Circuit, Heritage Circuit, Sufi Circuit, and Tirthankar Circuit.

Source: [Article](#)

Q.34) Consider the following statements regarding Udyam portal:

1. Registration under Udyam portal is based on self-declaration.
2. It is integrated with Goods and Services Tax Network (GSTN) as well as the government e-marketplace (GeM).

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: d

Explanation:

Both statements are correct

10 PM Compilation for the Month of July, 2021

- **Udyam registration portal** was launched in 2020. It is an online self-declaration process for MSMEs.
- **It simplifies** the process of registering for any enterprise under the MSME category for them to avail benefits under various government schemes.
- **Also, it is already integrated with** the Central Board of Direct Taxes (CBDT), Goods and Services Tax Network(GSTN) as well as the government e-marketplace(GeM).
- **As of July 2021**, over 3.8 million MSMEs have registered on the Udyam portal.

Source: [Article](#)

Q.35) Consider the following statements regarding Stand up India scheme:

1. Loans under the scheme are available only for brownfield projects.
2. Sectors for which loans can be given under the scheme include manufacturing, services and agri-allied activities.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: b

Explanation:

- **Statement 1 is incorrect:** Loans under the scheme are available only for greenfield projects

- **Statement 2 is correct**

About Stand Up India Scheme:

- **The Stand Up India Scheme** was launched in 2016 by the Department of Financial Services, Ministry of Finance.
- **Objective:** The scheme facilitates bank loans for setting up a new enterprise in manufacturing, services, agri-allied activities, or the trading sector by SC/ST/Women entrepreneurs.
- **Bank Loan:** It provides bank loans between Rs 10 lakh and up to 1 crore.
 - The government does not allocate funds for loans under the Scheme. They are extended by Scheduled Commercial Banks(SCBs).
- **Repayable of Loan:** The loan is repayable in 7 years, with a maximum moratorium period of 18 months.

Eligibility Condition for Loans under Stand Up India Scheme:

- **Beneficiaries** should be SC/ST and/or woman entrepreneurs above 18 years of age.
- **Loans under the scheme** are available only for **greenfield projects**. Greenfield signifies the first-time venture of the beneficiary in the manufacturing, services, agri-allied activities, or the trading sector.
- In the case of **non-individual enterprises**, 51% of the shareholding and controlling stake should be held by either SC/ST and/or Women Entrepreneur.
- Borrowers should **not be in default** to any bank/financial institution.

Source: [Article](#)

10 PM Compilation for the Month of July, 2021

Q.36) Kaman aman setu was sometimes seen in the news. Which of the following statement describes it correctly?

- a) It is an initiative to boost connectivity between North-Eastern States
- b) It is a friendship Bridge between India and Pakistan
- c) It is a new initiative to enhance government-people connectivity in Jammu and Kashmir
- d) It is a new Eco-bridge built in Western Ghats to reduce Human wildlife conflict

Correct Answer: B

Explanation:

- India and Pakistan Armies recently held a Flag meeting and exchanged sweets at Kaman Aman Setu.
- Kaman aman setu is located at Uri in North Kashmir.
- Kaman Aman Setu – Friendship Bridge between India and Pakistan, is also the last point of the India-Pak border in the Uri district.

Source: [All India Radio](#)

Q.37) Consider the following statements regarding I4C scheme:

1. It entails coordination of all activities related to implementation of Mutual Legal Assistance Treaties (MLAT) with other countries related to cybercrimes
2. National Cybercrime Threat Analytics Unit is a sub-component of the scheme

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation:

Both statements are correct

About I4C Scheme

- I4C – Indian Cybercrime Coordination Centre
- To act as a nodal point in the fight against cybercrime
- Identify the research problems/needs of LEAs and take up R&D activities in developing new technologies and forensic tools in collaboration with academia / research institutes within India and abroad
- To prevent misuse of cyber space for furthering the cause of extremist and terrorist groups
- Suggest amendments, if required, in cyber laws to keep pace with fast changing technologies and International cooperation
- To coordinate all activities related to implementation of Mutual Legal Assistance Treaties (MLAT) with other countries related to cybercrimes in consultation with the concerned nodal authority in MHA

Source: [PIB](#)

Q.38) Consider the following statements regarding Adopt a heritage scheme:

1. Trusts & NGOs can also adopt a heritage site under this scheme.
2. The corporate sector is expected to use corporate social responsibility (CSR) funds for the upkeep of the heritage site.

10 PM Compilation for the Month of July, 2021

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: d

Explanation:

Both statements are correct.

- **Adopt a Heritage Project:** It is an initiative of the Ministry of Tourism in collaboration with the Ministry of Culture and the Archaeological Survey of India. It was launched in September 2017 on World Tourism Day.
- **Eligibility:** Private and Public Sector Companies, Trusts, NGOs and Individuals are eligible for adopting heritage site (s)/ monument (s) under this project.
- **Key Features of the Project:**
 - The sites/monuments are selected on the basis of tourist footfall and visibility and can be adopted by private and public sector companies and individuals known as Monument Mitras for an initial period of five years.
 - The Monument Mitras are selected by the 'oversight and vision committee,' co-chaired by the Tourism Secretary and the Culture Secretary on the basis of the bidder's 'vision' for development of all amenities at the heritage site.
 - There is no financial bid involved. The corporate sector is expected to use **corporate social responsibility (CSR) funds for the upkeep of the site**

Source: [Article](#)

Q.39) Justice Mulla Committee sometimes in news is related to?

- a) Prison reforms
- b) Welfare of senior citizens
- c) NPA resolution
- d) Ease of doing business

Correct Answer: A

Explanation: Justice Mulla Committee, 1983:

- All India cadre for prison staff and Bringing prison under the concurrent list
- Government should form a National Policy on Prisons
- Government to use alternatives to imprisonment such as community service, etc.

Source: [Article](#)

Q.40) The Global Survey on Digital and Sustainable Trade Facilitation is released by which of the following?

- a) UNCTAD
- b) UNDP
- c) UNESCAP
- d) WTO

10 PM Compilation for the Month of July, 2021

Correct Answer: C

Explanation: The Global Survey on Digital and Sustainable Trade Facilitation is conducted every two years by UNESCAP. The 2021 Survey includes an assessment of 58 trade facilitation measures covered by the WTO's Trade Facilitation Agreement. The Survey is keenly awaited globally as it evidences whether or not the trade facilitation measures being taken have the desired impact and helps draw comparison amongst countries. A higher score for a country also helps businesses in their investment decisions.

Source: [PIB](#)

Q.41) Consider the following statements regarding **Socio-Economic Caste Census**

1. It was conducted by the Ministry of Rural Development in rural areas and the Ministry of Housing & Urban Poverty Alleviation in urban areas.

2. The SECC does not collect Caste data

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: Recently, on Caste Based Census, the Ministry of Home Affairs has said that the Government of India has decided not to enumerate caste-wise population other than SCs and STs in Census 2021.

About SECC:

- **Socio-Economic Caste Census(SECC)** was conducted by the Ministry of Rural Development in rural areas and the Ministry of Housing & Urban Poverty Alleviation in urban areas.
- **The SECC data** excluding caste data was finalized and published by the two ministries in 2016.
- **The raw caste data** was handed over to the Ministry of Social Justice and Empowerment, which formed an Expert Group under former NITI Aayog Vice-Chairperson Arvind Pangaria for classification and categorisation of data. However, the report has not been made public.

Read more: [The caste census debate](#)

Q.42) Consider the following statements regarding **Food Corporation of India (FCI)**

1. It is a neither a statutory body nor a constitutional body

2. The primary purpose of the FCI is the purchase, storage, movement, transport, distribution and sale of food grains and other foodstuffs.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation:

10 PM Compilation for the Month of July, 2021

- Food Corporation of India is a statutory body constituted under the Food Corporations Act, 1964, to implement the food policy of the Government of India.
- The primary purpose of the Food Corporation of India (FCI) includes the purchase, storage, movement, transport, distribution and sale of food grains and other foodstuffs.

Read more: [Food Corporation of India \(FCI\)](#)

Source: [Food security in India and its challenges](#)

Q.43) Consider the following statements regarding I-STEM Portal:

1. It is a national web portal for sharing research and development facilities.
2. This initiative is a brainchild of NITI Aayog

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- **Statement 1 is correct:** **I-STEM** was launched in 2020. It is a National Web portal for sharing R&D (Research and Development) facilities.
 - **Purpose:** The portal is the gateway for researchers to locate the specific facility(ies) they need for their R&D work and identify the one that is either located closest to them or available the soonest.
- **Statement 2 is incorrect:** The Portal Is an initiative of the Office of the Principal Scientific Adviser to the Government of India under the aegis of Prime Minister Science, Technology and Innovation Advisory Council (PM-STIAC) mission.

Source: [PIB](#)

Q.44) Consider the following statements regarding NISHTHA Programme:

1. It is a capacity building programme for improving quality of manufacturing in MSME industry.
2. Training is being organized by constituting National Resource Groups (NRGs) and State Resource Groups (SRGs) at the National and the State level.

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- **Statement 1 is incorrect:** NISHTHA stands for National Initiative for School Heads and Teachers Holistic Advancement. It is a capacity building programme for Improving Quality of School Education through Integrated Teacher Training.
- **Statement 2 is correct:** This training is being organized by constituting National Resource Groups (NRGs) and State Resource Groups (SRGs) at the National and the State level who will be training 42 lakhs teachers subsequently

10 PM Compilation for the Month of July, 2021

Source: [PIB](#)

Q.45) Consider the following statements regarding Agristack:

1. The database will create a unified platform for farmers to provide them end-to-end services across the agriculture food value chain.
2. Each farmer will have a unique digital identification (farmers' ID) which will be linked to their Aadhaar number.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation: Both statements are correct.

- **AgriStack** is a proposed collection of technologies and digital databases focusing on farmers and the agricultural sector.
- **The database will create a unified platform** for farmers to provide them end-to-end services across the agriculture food value chain.
- **Under the program**, each farmer will have a unique digital identification (farmers' ID) which will be linked to their Aadhaar number.
- **Data to be collected by AgriStack** may include personal details, the profile of land held, production details, and financial details.

Source: [Article](#)

Q.46) Consider the following statements regarding National Organ Transplant Programme (NOTP):

1. Programme will organize a system of organ and tissue procurement & distribution for transplantation.
2. One of its aims is to protect vulnerable poor from organ trafficking.

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: D

Explanation:

Both statements are correct

About National Organ Transplant Programme (NOTP):

- NOTP aims to promote organ donation and transplantation across all States/Union Territories (UTs).
- **Implementing Agency:** Directorate General of Health Services (DGHS), Ministry of Health and Family Welfare is implementing the National Organ Transplant Programme.

Objectives of the Programme:

- To organize a system of organ and tissue procurement & distribution for transplantation.

10 PM Compilation for the Month of July, 2021

- To promote deceased organ and Tissue donation.
- Furthermore, to train required manpower.
- Also, to protect vulnerable poor from organ trafficking.
- Lastly, to monitor organ and tissue transplant services and bring about policy and programme corrections/ changes whenever needed.

Source: [Article](#)

Q.47) Consider the following statements regarding the FIST program:

1. It is considered as complimentary support for enabling Schools/ Colleges to pursue research activities more effectively and efficiently.
2. It is an initiative of Ministry of Earth Sciences.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- **The FIST program** was launched by the Department of Science & Technology in 2000.
- **The program aims to** provide basic infrastructure and enabling facilities for promoting R&D activities in new and emerging areas and attract fresh talents in universities & other educational institutions.
- **Duration:** The duration of support for each project will be for a period not exceeding 5 years.
- It is a program run by Department of Science and Technology (DST)
- Read more [here](#)

Source: [Article](#)

Q.48) Consider the following statements regarding Deposit Insurance and Credit Guarantee Corporation (DICGC):

1. It is a subsidiary of RBI.
2. The Governor of RBI acts as the Chairman of DICGC.
3. All commercial banks including the branches of foreign banks functioning in India are covered under deposit insurance scheme of DICGC

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 and 3 only
- c) 2 only
- d) 1, 2 and 3

Correct Answer: C

- **Statement 1 is correct:** DICGC is a subsidiary of RBI
- **Statement 2 is incorrect:** Deputy Governor is the Chairman of DICGC
- **Statement 3 is correct:** All commercial banks including the branches of foreign banks functioning in India, Local Area Banks and Regional Rural Banks are covered under the deposit insurance scheme of DICGC.

10 PM Compilation for the Month of July, 2021

Source: [Article](#)

Q.49) Justice V. R. Krishna Iyer committee sometimes seen in news is associated with?

- Fast track courts to reduce pendency of cases
- Improving functioning of National Company Law Tribunal
- Reforming the condition of women prisoners
- Evaluation of the implications of digital surveillance

Correct Answer: C

Explanation:

- The **Expert Committee on 'Women Prisoners'** constituted by the Government in 1986-87 under the Chairmanship of Mr. Justice V.R. Krishna Iyer made a number of very useful recommendations for women prisoners and suggested a National Policy for Custodial Justice for Women.

Source: [Article](#)

Q.50) Which of the following reasons is/are responsible for heavy rains in recent years?

- Increasing temperatures at the poles
- More CO₂ emission into the atmosphere
- Faster movement of storms in mid latitudes

Select the correct answer from the codes given below:

- 1 only
- 1 and 2 only
- 2 only
- 1, 2 and 3

Correct Answer: B

Explanation: How Climate change can cause floods?

- Experts say the **more CO₂ the world emits** into the atmosphere, the **warmer will be the air temperature. Warmer air holds more moisture and results in excess rainfall**, which leads to flooding.
- Additionally, **increasing temperatures at the poles result in slower movement of storms** in the mid-latitudes. As a result, **storms linger longer at a specific place.**
- The combination of a **slow-moving storm and the presence of surplus moisture in the atmosphere results in intense rainfall** in one location within a short period of time.
- In 2018, Kerala, for example, witnessed 414 mm of rain in just three days. Rainfall for the period of August 1 to 19, 2018, in Kerala was **164% more than normal.**

Read more: [Floods in Europe and lessons for India – Explained, Pointwise](#)

Q.51) Consider the following statements regarding All India Quota (AIQ) Scheme

- It provides for domicile-free merit-based opportunities to students from any State to aspire to study in a good medical college located in another State.
- Only the central list of OBCs shall be used for this Quota reservation.
- The AIQ seats for State medical and dental colleges also covered under the scheme

Which of the above statements is/are correct?

- 2 only
- 1 and 2 only

10 PM Compilation for the Month of July, 2021

- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: B

Explanation: The Central Government has announced that it will provide 27% reservation for OBCs and 10% reservation for the economically weaker section(EWS). It will be provided under the All India Quota (AIQ) scheme for undergraduate and postgraduate medical/dental courses in state medical and dental colleges from 2021-22.

About All India Quota (AIQ) Scheme:

- **The All-India Quota (AIQ)** Scheme was introduced in 1986 under the direction of the Hon'ble Supreme Court.
- **Purpose:** It provides for domicile-free merit-based opportunities to students from any State to aspire to study in a good medical college located in another State.
- **All India Quota** consisted of 15% of total available UG seats and 50% of total available PG seats in government medical colleges.
- **However,** this was not extended to the AIQ seats of State medical and dental colleges. This has been done now.
- The central list of OBCs shall be used for this reservation.

Read more: [Landmark decision taken by Government of India in Medical Education](#)

10 PM Compilation for the Month of July, 2021

History/Art and Culture

Q.1) Consider the following statements regarding **Bankim Chandra Chattopadhyay**

1. His epic Novel Anandamath was set in the background of the Sanyasi Rebellion.
2. He composed the song Vande Mataram in Sanskrit
3. He founded a English newspaper Bande Mataram

Which of the above statements is/are correct?

- a) 1 only
- b) 1 and 2 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: B

Explanation:

Indian Prime Minister paid homage to Bankim Chandra Chattopadhyay on his Jayanti on 27th June.

About:

- He was one of the greatest novelists and poets of India.
- He composed the song Vande Mataram in Sanskrit, which was a source of inspiration to the people in their freedom struggle.
- His epic Novel Anandamath was set in the background of the Sanyasi Rebellion (1770-1820). The Novel made Bankim Chandra Chattopadhyay an influential figure on the Bengali renaissance.
- He also founded a monthly literary magazine, Bangadarshan, in 1872
 - The magazine stopped publication in the late 1880s, but was resurrected in 1901 with Rabindranath Tagore as its editor
- His famous novels include Kapalkundala, Debi Choudhurani, Bishabriksha (The Poison Tree), Chandrasekhar, Rajmohan's wife and Krishnakanter Will.

Aurobindo Ghosh founded the English newspaper Bande Mataram

Source: [PIB](#)

Q.2) Consider the following statements regarding **kalbeliya dance**.

1. It is only performed by women while the men play the instruments and provide the music.
2. It is popular in Kerala
3. It was included in the United Nations Educational, Scientific and Cultural Organizations (UNESCO) list of Intangible Cultural Heritage (ICH)

Which of the statements given above is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) All of the above

Correct Answer: C

Explanation:

Recently, due to Covid-19-Pandemic an app called chendavia is gaining popularity among the students of kalbeliya dance.

About Kalbeliya dance:

10 PM Compilation for the Month of July, 2021

- It is associated with a Rajasthani tribe of Kalbeliya
- In 2010, it was included in the United Nations Educational, Scientific and Cultural Organizations (UNESCO) list of Intangible Cultural Heritage (ICH).
- It is generally performed for any joyous celebration and is considered to be an integral part of the Kalbeliya culture.
 - Women in flowing black skirts dance and swirl, replicating the movements of a serpent, while men accompany them on the “khanjari” instrument and the “poongi”, a woodwind instrument traditionally played to capture snakes.
- It is only performed by women while the men play the instruments and provide the music.
- These songs disseminate mythological knowledge through stories.

Source: [The Hindu](#)

Q.3) Consider the following statements

1. Netaji Subhas Chandra Bose had called him the “maker of modern India.”
2. He was an ardent disciple of Sri Ramakrishna Paramahansa
3. He preached ‘neo-Vedanta’, an interpretation of Hinduism through a Western lens, and believed in combining spirituality with material progress. He also established the Belur Math, which became his permanent abode.

Which of the following personality is described above?

- a) Dadoba Pandurang
- b) Swami Vivekananda
- c) Ishwar Chandra Vidyasagar
- d) Swami Sahajanad

Correct Answer: B

Explanation: Death Anniversary of Swami Vivekananda - 4th July

About Swami Vivekananda:

- Netaji Subhas Chandra Bose had called him the “maker of modern India.”
- He was an ardent disciple of Sri Ramakrishna Paramahansa
- He preached ‘neo-Vedanta’, an interpretation of Hinduism through a Western lens, and believed in combining spirituality with material progress. He also established the Belur Math, which became his permanent abode.
- He pushed for national integration in colonial India, and his famous speech remains as the one that he gave in Chicago in 1893

Source: [All India Radio](#)

Q.4) Consider the following statements regarding the Goods and Services Tax Council:

1. Union Minister of State for Finance is the ex-officio Vice-Chairperson of the Council.
2. One-half of the total number of Members of the Goods and Services Tax Council constitute the quorum at its meetings.
3. It can recommend any special rate for a specified period, to raise additional resources during any natural calamity.

Which of the statements given above is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only

10 PM Compilation for the Month of July, 2021

d) 1, 2 and 3

Correct Answer: B

Explanation: The Members of the Goods and Services Tax Council choose one amongst themselves to be the Vice-Chairperson of the Council for such period as they may decide.

One-half of the total number of Members of the Goods and Services Tax Council shall constitute the quorum at its meetings.

The Goods and Services Tax Council's mandate includes that it can make recommendations to the Union and the States on any special rate or rates for a specified period, to raise additional resources during any natural calamity or disaster

Source: [Business Standard](#)

Q.5) Consider the following statements regarding **Central Vista development project** prior Independence.

1. The Central Vista development was led by architects Edwin Lutyens and Herbert Baker
2. It was inaugurated by Viceroy Lord Linlithgow.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- Britain's King George V on December 12, 1911, at his coronation announced the transfer of the seat of the Government of India from Calcutta to the ancient Capital of Delhi.
- These 20 years-long projects of Central Vista development were led by architects Edwin Lutyens and Herbert Baker. It was completed in 1927 and inaugurated by Viceroy Lord Irwin.
- Central Vista is 3.2 kilometre area in Delhi housing Parliament House, Rashtrapati Bhavan, North and South Blocks, Rajpath, India Gate, National Archives and the then princes' houses around India Gate.
- In the 1962 Master plan of Delhi, site was declared a heritage precinct as an "important site to meet the aspirations of a rich culture".

Read more: [Central Vista Project](#)

Source: [The Indian Express](#)

Q.6) Consider the following pairs.

Martial arts - State

1. Thag Ta - Sikkim
2. Silambam - Tamil Nadu
3. Mardani Khel - Maharashtra

Select the correct answer from the codes given below:

- a) 1 only
- b) 2 and 3 only
- c) 3 only
- d) 1, 2 and 3

10 PM Compilation for the Month of July, 2021

Correct Answer: B

Explanation: Recently, an Indian named Ganesan Sandhirakasan has won the top prize in a government-initiated competition for migrant workers in Singapore for his performance of Silambam.

About Silambam:

Silambam is an ancient weapon-based martial art that emerged in Tamilakam, which is now Tamil Nadu region of India. It is one of the oldest martial arts in the world

Martial Arts in India:

- Paika- Odisha
- Thag Ta- Manipur
- Kalaripayattu- Kerala
- Pari Khanda- Bihar
- Choliya- Uttarakhand
- Pang Lhabsol- Sikkim
- Gatka- Punjab
- Musti Yudha- Uttar Pradesh
- Mardani Khel- Maharashtra

Source: [Indian Express](#)

Q.7) Consider the following statements regarding **Kesaria Buddha stupa**

1. The stupa is said to be the tallest and the largest Buddhist stupa in the world
2. It is located in Uttar Pradesh
3. Both Fahien and Hsuan Tsang had visited this Stupa

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: C

Explanation: The world-famous Kesaria Buddha stupa in east Champaran district of Bihar is waterlogged following floods in some parts of the district.

About Kesaria Buddha stupa:

- The stupa is said to be the tallest and the largest Buddhist stupa in the world.
- It is located in Kesariya, at a distance of 110 kilometers from Patna, in the East Champaran district of Bihar.
- The first construction of the Stupa is dated to the 3rd century BCE. The original Kesaria stupa probably dates to the time of Ashoka (circa 250 BCE), as the remains of a capital of a Pillar of Ashoka were discovered there.
- Two great foreign travelers, Fahien and Hsuan Tsang, had visited this place in ancient times and have left interesting and informative accounts of their travels.
- The discovery of gold coins bearing the seal of the famous emperor Kanishka of the Kushan dynasty (AD 30 to AD 375) goes on to further establish the ancient heritage of Kesaria.

Source: [The Hindu](#)

10 PM Compilation for the Month of July, 2021

Q.8) Consider the following statements regarding **Kashi Annapurna Temple**

1. The current Annapurna Mandir was constructed in the 18th century by Maratha Peshwa Bajirao I.
2. The temple is constructed in Nagara architecture.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation:

- Annapurna Devi Mandir is one of the most famous Hindu temples (Mandir) in the holy city of Varanasi.
- This temple is dedicated to goddess Annapurna, the Hindu goddess for nourishment and is a form of the goddess Parvati.
- The current Annapurna Mandir was constructed in the 18th century by Maratha Peshwa Bajirao I.
- The temple is constructed in Nagara architecture.

Source: [PIB](#)

Q.9) Consider the following statements regarding **Kesaria Buddha Stupa:**

1. It is regarded as the tallest and the largest Buddhist stupa in the world.
2. The current Kesaria Stupa belongs to Ashoka dynasty.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- **Statement 1 is correct**
- **Statement 2 is incorrect:** The original Kesariya stupa probably dates to the time of Ashoka (circa 250 BCE) as the remains of a capital of a Pillar of Ashoka were discovered there. The current stupa dates to the Gupta Dynasty between 200 AD and 750 AD and may have been associated with the 4th century ruler Raja Chakravarti.

Source: [Article](#)

Q.10) Consider the following statements regarding **Radiocarbon Dating**

1. It is a method for determining the age of an object containing organic material by using the properties of radiocarbon.
2. After death, all living things absorb carbon from the atmosphere and food sources around them. Scientists will use that to calculate the age.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only

10 PM Compilation for the Month of July, 2021

- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

About Radiocarbon Dating:

- **Radiocarbon dating** is a method for determining the age of an object containing organic material by using the properties of radiocarbon, a radioactive isotope of carbon.
- **Method:**
 - **The basis of radiocarbon dating is simple:** all living things absorb carbon from the atmosphere and food sources around them, including a certain amount of natural, radioactive carbon-14.
 - **When the plant or animal dies,** they stop absorbing, but the radioactive carbon that they've accumulated continues to decay.
 - **Hence,** measuring the amount leftover gives an estimate as to how long something has been dead.

Read more: [Prehistoric site in Faridabad could be a lakh year old, say archeologists](#)

Q.11) Consider the following statements regarding Indian History Congress (IHC):

1. It was established during British Colonial rule.
2. It is the largest association of professional historians in South Asia.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: c

Explanation:

Both statements are correct

Indian History Congress (IHC):

- **IHC was founded** in 1935. It is the largest association of professional historians in South Asia.
- **Origin:** The lead to establish IHC was taken by Poona historians during the period of British colonial rule. The first session took place in Bharat Itihas Sanshodhak Mandal, Poona in 1935.
- **Mandate:** Its main objective is to promote secular and scientific writing of history. It also has been holding its sessions very regularly.

Source: [Article](#)

Q.12) Consider the following statements regarding Tipu Sultan

1. He signed Treaty of Gajendragad during Maratha–Mysore War
2. He introduced a new coinage system, a calendar and a new land revenue system
3. He established a modern armory in Dindigul

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only

10 PM Compilation for the Month of July, 2021

- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: A

Explanation: Recently, naming a garden on Tipu Sultan in Mumbai sparked a controversy.

- Born in November 1750, Tipu Sultan was Haidar Ali's son and a great warrior, also known as the Tiger of Mysore.
- He was a well educated man fluent in Arabic, Persian, Kanarese and Urdu.
- Tipu introduced a number of administrative innovations during his rule, including his coinage, a new Mauludi lunisolar calendar, and a new land revenue system which initiated the growth of Mysore silk industry.
- He organised his army on the European model with Persian words of command.
- He established three dockyards at Mangalore, Wajedabad and Molidabad. However, his plans did not fructify.
- Tipu's conflicts with his neighbours included the Maratha–Mysore War which ended with the signing of the Treaty of Gajendragad.

Hyder Ali established a modern armory in Dindigul

Source : [Indian Express](#)

10 PM Compilation for the Month of July, 2021

Environment

Q.1) Consider the following statements regarding **Bengal monitor or common Indian monitor**

1. These are carnivorous and non-poisonous
2. The Bengal monitor lizard is protected under Schedule I of WPA
3. It is listed under the 'Vulnerable' category on the International Union for Conservation of Nature Red List.

Which of the above statements is/are correct?

- a) 1 only
- b) 1 and 3 only
- c) 1 and 2 only
- d) 1, 2 and 3

Correct Answer: C

Explanation:

Recently, the forest department of Odisha busted an organised trafficking racket recently and seized seven Bengal monitor lizards — five dead and two alive.

- The Bengal monitor or common Indian monitor (*Varanus bengalensis*) is a large lizard that is mainly terrestrial. It is 61-175 cm long. The monitors are carnivorous and non-poisonous.
- Bengal monitor is a lesser-known species and does not enjoy the same status as crocodiles and other reptiles
- The monitor lizard is protected under Schedule I of WPA but is regularly killed for its meat, blood and oil. Its genitals are sold as a charm or an aphrodisiac as well as cure for several ailments
- The species is listed under the 'Least Concern' category on the International Union for Conservation of Nature Red List but its population is dwindling due to rampant poaching
- It plays an important role in maintaining the balance and health of the forest ecosystem

Source: [Down To Earth](#)

Q.2) Consider the following statements regarding Particulate Matter (PM):

1. PM can include both solid particles and liquid droplets.
2. Gestational exposure to PM_{2.5} increases likelihood of pregnancy loss.
3. NASA's GISS global climate model can estimate the amount of particular matter deposited on surface worldwide.

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: D

Explanation:

All statements are correct.

- Particulate matter, or PM, is the term for particles found in the air, including dust, dirt, soot, smoke, and **liquid droplets**.
 - Particles can be suspended in the air for long periods of time.

10 PM Compilation for the Month of July, 2021

- Some particles are large or dark enough to be seen as soot or smoke. Others are so small that individually they can only be detected with an electron microscope.
- Many manmade and natural sources emit PM directly or emit other pollutants that react in the atmosphere to form PM.
- [Gestational exposure to PM2.5](#) was also associated with an increased likelihood of pregnancy loss and this remained significant after adjusting for other factors.
 - Each increase in 10 $\mu\text{g}/\text{m}^3$ was estimated to increase a mother's risk of pregnancy loss by 3%. The increase in risk was greater for mothers from rural areas or those who became pregnant at an older age, compared to younger mothers from urban areas.
- NASA's GISS Global Climate Model not only calculates the amount of sun's energy blocked by the airborne pollutants but also estimates the amount of particular matter deposited on surface worldwide.

Source: [Article](#)

Q.3) Consider the following statements regarding **Barnadi Wildlife Sanctuary: Assam**

1. The sanctuary was established specifically to protect the Pygmy Hog and Hispid Hare.
2. The Sanctuary is bordered by Brahmaputra River

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct answer: A

Explanation:

Recently, the World-Wide Fund for Nature-India (WWF) found a few tigers inhabiting the Barnadi Wildlife Sanctuary in Assam.

About the Barnadi Wildlife Sanctuary:

- It is one of the smallest WS (Wildlife Sanctuary) of Assam and covers an area of 26.22 sq. Km.
- The Sanctuary is bordered by the Barnadi river and Nalapara river to the west and east respectively.
- It was established specifically to protect the Pygmy Hog and Hispid Hare/Assam Rabbit

Source: [The Hindu](#)

Q.4) Consider the following statements regarding the **Great Indian Bustard:**

1. It is endemic to Indian subcontinent.
2. It is listed as a vulnerable species in the IUCN Red List.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation

10 PM Compilation for the Month of July, 2021

- **Statement 1 is correct:** It is endemic to the Indian subcontinent. It is found in Rajasthan (Desert National Park), Gujarat, Madhya Pradesh, Karnataka and Andhra Pradesh in India and parts of Pakistan.
- **Statement 2 is incorrect:** It is a critically Endangered species with less than 150 birds left in the wild. It is one of the heaviest flying birds (weighing up to 15kgs).
- Read [more](#).

Source: [Article](#)

Q.5) Bonn Challenge sometimes seen in news is related to?

- a) Restoration of degraded land
- b) Conservation of Migratory Species
- c) Protection of Ozone layer
- d) Convention on Biological Diversity

Correct Answer: A

Explanation

- At the UN Framework Convention on Climate Change (UNFCCC) Conference of Parties (CoP) 2015 in Paris, the government of India made a Bonn Challenge pledge to bring 13 million hectares of degraded land into restoration by 2020 and an additional 8 million hectares by 2030.

Source: [Article](#)

Q.6) Green pass as sometimes seen in news is related to?

- a) Specific exception clauses to LDCs under Kyoto protocol
- b) Europe's new vaccine passport programme
- c) Relaxations in immigration rules to citizens of island nations
- d) Base Erosion and Profit Shifting compliant practices

Correct Answer: B

Explanation

- Europe's new 'vaccine passport' programme is also called Green Pass. It is a digital or paper document that indicates whether individuals have received a COVID-19 vaccination or, in some cases, recently tested negative for COVID-19.

Source: [Article](#)

Q.7) Consider the following statements with respect to Chilika Lake:

1. Chilika lake is the Asia's largest brackish water lake
2. It is located in Bay of Bengal.
3. Chilika lake was also designated as a wetland of international importance under the Ramsar Convention

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 1 and 3 only
- c) 2 and 3 only
- d) 1, 2 and 3

10 PM Compilation for the Month of July, 2021

Correct Answer: D

Explanation

All statements are correct

- Chilika lake is the Asia's largest brackish water lake. It is located at the Daya River flowing into the Bay of Bengal.
- The lake is also the second largest coastal lagoon in the world after the New Caledonian barrier reef in New Caledonia. Chilika lake was also designated as a wetland of international importance under the Ramsar Convention in 1981.
- The lake is also home to the largest wintering ground for migratory birds on the Indian subcontinent. These birds travel great distances to reach Chilika Lake. The Irrawaddy dolphin (IUCN Red List –Endangered) is the flagship species of Chilika Lake

Q.8) Consider the following statements

1. Black carbon is not harmful.
2. Black carbon is formed through the incomplete combustion of fossil fuels, biofuel, and biomass.
3. Blue carbon includes coastal carbon sink

Which of the statements given above is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) All of the above

Correct Answer: B

Explanation:

Statement 1 is incorrect. A 10-point increase in air pollution from black carbon led to an average 5% increase in mortality.

Statement 2 is correct. Black carbon is formed through the incomplete combustion of fossil fuels, biofuel, and biomass.

Statement 3 is correct. Blue Carbon refers to coastal, aquatic and marine carbon sinks held by vegetation, marine organisms, and sediments.

Q.9) Consider the following statements regarding **LEAF (Lowering Emissions by Accelerating Forest Finance) Coalition**

1. It is a coalition of African Countries to improve global co-operation in lowering emissions.
2. They intend to mobilize at least USD 1 billion in financing to countries committed to protecting their tropical forests.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation:

LEAF (Lowering Emissions by Accelerating Forest Finance) Coalition was announced at the Leaders Summit on Climate, 2021.

10 PM Compilation for the Month of July, 2021

About the LEAF Coalition:

- It is a collective of the governments of the USA, United Kingdom and Norway.
- LEAF coalition will be one of the largest ever public-private efforts to protect tropical forests and intend to mobilize at least USD 1 billion in financing to countries committed to protecting their tropical forests.
- As it is a public-private effort, thus also supported by transnational corporations (TNCs) like Unilever plc, Amazon.com, Nestle, Airbnb etc.
- The LEAF coalition initiative is a step towards concretising the aims and objectives of the Reducing Emissions from Deforestation and Forest Degradation (REDD+) mechanism.
 - REDD+ was created by the United Nations Framework Convention on Climate Change (UNFCCC). It monetised the value of carbon locked up in the tropical forests of most developing countries, thereby propelling these countries to help mitigate climate change.

Source: [Down To Earth](#)

Q10). Consider the following statements regarding a Heat Dome?

1. It is more likely to form during La Nina years.
2. Under the dome, air sinks and is compressed to release heat.
3. The hotter the temperature, the stronger a heat dome gets.

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Answer: d

All statements are correct

- Heat dome is more likely to form during La Niña years like 2021, when waters are cool in the eastern Pacific and warm in the western Pacific.

Source: [Heat Dome](#)

Q.11) Consider the following statements regarding Fly Ash

1. Fly ash includes substantial amounts of silicon dioxide (SiO₂), aluminium oxide (Al₂O₃), ferric oxide (Fe₂O₃) and calcium oxide (CaO).
2. When combined with water they cause leaching of heavy metals in ground water.
3. It also helps in soil conservation, and helps in root development system of trees.

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: A

Explanation: National Thermal Power Corporation (NTPC) Limited has invited Expression of Interest (EOI) for sale of fly ash from the designated plants of the Middle East and other regions.

10 PM Compilation for the Month of July, 2021

About Fly Ash:

- It is called fly ash because it is transported from the combustion chamber by exhaust gases.
- It is collected from the exhaust gases by electrostatic precipitators or bag filters
- **Composition:** Fly ash includes substantial amounts of silicon dioxide (SiO₂), aluminium oxide (Al₂O₃), ferric oxide (Fe₂O₃) and calcium oxide (CaO).
- Harmful Effects:
 - Fly ash particles are toxic air pollutants. They can trigger heart disease, cancer, respiratory diseases and stroke.
 - When combined with water they cause leaching of heavy metals in ground water.
 - It also pollutes the soil, and affects the root development system of trees.

Source: [PIB](#)

Q.12) Valmiki Tiger Reserve (VTR) was recently seen in news. In which of the following the tiger reserve is located?

- a) Maharashtra
- b) Andhra Pradesh
- c) Bihar
- d) Uttar Pradesh

Correct Answer: C

Explanation:

Authorities in Bihar's Valmiki Tiger Reserve (VTR) have started planning for conservation of vultures after 150 of the birds were sighted recently in the protected area.

- Different species of vultures including Egyptian vulture (*Neophron percnopterus*), Griffon vulture (*Gyps fulvus*), White-rumped vulture (*Gyps bengalensis*) and Himalayan griffon (*Gyps himalayensis*) were among the 150 individuals spotted in the reserve.

Source: [Down To Earth](#)

Q.13) Consider the following statements regarding **Discrete Auroras**

1. These are new type of auroras found in the Earth at night times.
2. It is found by the UAE's Hope spacecraft

Which of the statements given above is/are correct?

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

Correct answer: B

Explanation:

Recently, the UAE's Hope spacecraft has captured images of glowing atmospheric lights in the Mars night sky, known as discrete auroras.

- Unlike auroras on Earth, which are seen only near the north and south poles, Discrete Auroras (DA) on Mars are seen all around the planet at night time.
 - An Aurora is a display of light in the sky predominantly seen in the high latitude regions (Arctic and Antarctic). It is also known as a Polar light.

10 PM Compilation for the Month of July, 2021

- These Auroras are traced out where energetic particles excite the atmosphere after being funneled down by a patchy network of crustal magnetic fields that originate from minerals on the surface of Mars.

Source: [Indian Express](#)

Q.14) Which of the following is a source of methane emissions?

1. Landfills
2. Fracking of natural gas
3. Ruminants

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct answer: d

Explanation:

All are sources of methane emissions

- Methane is emitted from a variety of anthropogenic (human-influenced) and natural sources. Anthropogenic emission sources include landfills, oil and natural gas systems, agricultural activities, coal mining, stationary and mobile combustion, wastewater treatment, and certain industrial processes.
- Stomachs of cattle, fermentation in rice fields, fracking for natural gas, coal mines, festering bogs, burning forests — they all produce methane.

Source: [Article](#)

Q.15) Consider the following statements regarding Intergovernmental Panel on Climate Change (IPCC):

1. IPCC itself does not monitor climate related data or parameters.
2. India is a member of IPCC.
3. It has been awarded with a Nobel Peace Prize in the past.

Which of the above statements is/are correct?

- a) 1 only
- b) 1 and 2 only
- c) 3 only
- d) 1, 2 and 3

Correct Answer: d

Explanation:

- IPCC is the United Nations body for assessing the science related to climate change. It was established in 1988 by UNEP and WMO (World Meteorological Organization) to provide policymakers with regular scientific assessments related to climate change.
- **India is also a member of IPCC.** IPCC itself **does not conduct any research** nor does it monitor climate related data or parameters. Instead, thousands of scientists from all over the world contribute to the work of IPCC on a voluntary basis.
- IPCC has so far published five Assessment Reports (AR) and will publish the sixth report (AR6) in 2021-22. IPCC also publishes special reports like “IPCC Special Report on Global

10 PM Compilation for the Month of July, 2021

Warming of 1.5oC". For its outstanding work, it has also **received Nobel Peace Prize in 2007**.

- IPCC established National Green House Gas Inventories Program (NGGIP) to provide methods for estimating national inventories of greenhouse gas emissions to and removals from the atmosphere. The guidance produced by the NGGIP is used by countries that are party to the UNFCCC to estimate the emissions and removals that they report to the UNFCCC.

Source: [Article](#)

Q.16) Navegaon Nagzira Tiger Reserve was recently seen in the news. In which of the following State the tiger reserve is located?

- a) Bihar
- b) Maharashtra
- c) Uttar Pradesh
- d) Madhya Pradesh

Correct Answer: B

Explanation: Recently, a rare Melanistic Leopard (commonly known as Black Panther) has been recorded in Navegaon-Nagzira Tiger Reserve (NNTR) of Maharashtra.

Strategically, the Tiger Reserve is located in the heart of central Indian Tiger landscape which contributes almost one sixth of the total tiger population of the country.

Sightings of the black leopard were earlier reported in the Tadoba Andhari Tiger Reserve and the Pench Tiger Reserve in Maharashtra.

Source: [The Indian Express](#)

Q.17) Consider the following statements regarding *Stenella longirostris*:

1. It is found in the tropical and sub-tropical zones of the world.
2. It is listed as a vulnerable species in the IUCN Red List.

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation:

- **Statement 1 is correct**
- **Statement 2 is incorrect:** It is listed as Least Concern (LC) under IUCN red list.

10 PM Compilation for the Month of July, 2021

Spinner Dolphin
Stenella longirostris

CITATION
Braulik, G. & Reeves, R. 2018. *Stenella longirostris* (errata version published in 2019). *The IUCN Red List of Threatened Species* 2018: e.T20733A156927622. <https://dx.doi.org/10.2305/IUCN.UK.2018-2.RLTS.T20733A156927622.en>. Downloaded on 07 July 2021.

NOT EVALUATED DATA DEFICIENT **LEAST CONCERN** NEAR THREATENED VULNERABLE ENDANGERED CRITICALLY ENDANGERED EXTINCT IN THE WILD EXTINCT

Q.18) Baisipalli wildlife sanctuary sometimes in news is located in?

- Telangana
- Jharkhand
- Odisha
- Andhra Pradesh

Correct Answer: C

Explanation:

- Baisipalli Sanctuary is one of the eminent wildlife sanctuaries in Odisha that vividly illustrates the diverse natural heritage of the east Indian state.
- Read [more](#)

Source: [Article](#)

Q.19) Consider the following statements regarding common palm civet:

- It is found in southern and southeast Asia.
- It is a terrestrial mammal only.
- It is classified as a Vulnerable species in the IUCN Red List of Threatened Species.

Select the correct answer from the codes given below:

- 1 only
- 2 and 3 only
- 3 only
- 1, 2 and 3

Correct Answer: A

Explanation:

- Statement 1 is correct**
- Statement 2 is incorrect:** It is both a terrestrial and arboreal mammal.
- Statement 3 is incorrect:** It is classified as Least Concern (LC) under IUCN Red list.

Source: [Article](#)

10 PM Compilation for the Month of July, 2021

Q.20) Gravelia boro, Dexippus kleini, Proszynskia diatrete, Piranthus decorus have been in news recently. What species do they belong to?

- a) Spider
- b) Snake
- c) Butterfly
- d) Fish

Correct Answer: A

Explanation:

All are species of spiders

- Two species of spiders sharing the same space – the Jharbari range of western Assam's Chirang Reserve Forest – have spun a web of cheer for fauna in India.
- Gravelia boro, the burrow spider, is new to science. Dexippus kleini, the oriental jumping spider, has been recorded for the first time since its original description 129 years ago by Swedish arachnologist Tord Tamerlan Teodor Thorell about 2,600 km away in Sumatra.
- The name of the burrow spider has been derived from the Bodo community, one of the largest ethnolinguistic groups in Assam and predominantly inhabiting the area where the new species of spider was recorded

Source: [Article](#)

Q.21) Which of the following is/are the causes of Urban heat island effect

- 1. High amount of evapotranspiration
- 2. Building of skyscrapers
- 3. Close construction
- 4. Waste heat from Vehicles, factories

Which of the statements given above is/are correct?

- a) 2 and 4 only
- b) 2, 3 and 4 only
- c) 1, 2 and 3 only
- d) All of the above

Correct Answer: B

Explanation: A recent report by Climate Trends said that **most parts of India experience 12-66 days of potentially deadly heat and humidity combinations** in a year. The report also pointed out that the **temperature will increase 4.3 degrees Celsius by 2100** relative to pre-industrial temperature.

Key findings of the report:

- Most of India experiences 12-66 days of a combination of potentially deadly heat and humidity, with hotspots along the east coast.
- The report **warned of a substantial worsening of the situation even by 2050.**
- The report also warns that in **hot conditions, humans cool themselves by sweating; but if the humidity is too high, sweating no longer works**, and the human also risks dangerous overheating.

Causes of Urban Heat Island:

- The **lack of evapotranspiration** in the city leads to the city experiencing higher temperatures than its surroundings.

10 PM Compilation for the Month of July, 2021

- **Evapotranspiration:** Evaporation involves the movement of water to the surrounding air, and transpiration refers to the movement of water within a plant and a subsequent lot of water through the stomata (pores found on the leaf surface) in its leaves. Grass, plants, and trees in the suburbs and rural areas do this.
- **Close construction:** When houses, shops, and industrial buildings are constructed close together, it can create an Urban Heat Island. Building materials are usually very good at insulating, or holding in heat. This insulation makes the areas around buildings warmer.
- **Waste heat** from vehicles, factories, and air conditioners may add warmth to their surroundings, further exacerbating the heat island effect
- **Building of skyscrapers:** When there is no more room for an urban area to expand, engineers build upward, creating skyscrapers. All this construction means waste heat—and heat that escapes insulation has nowhere to go. It lingers in and between buildings in the UHI.
- **Urban haze**—The haze of air pollution that hangs over many cities can act as a miniature greenhouse layer, preventing outgoing thermal radiation (heat) from escaping from urban areas.

Read more: [Urban heat island – causes, impact and solutions: Explained, Pointwise](#)

Source: [Article](#)

Q.22) In which of the following state, India's first **National Dolphin Research Centre (NDRC)** has been planned?

- a) West Bengal
- b) Odisha
- c) Gujarat
- d) Bihar

Correct Answer: D

Explanation:

Work on India's first dolphin research centre was set to start in Patna post-monsoon. The National Dolphin Research Centre would boost conservation efforts for river dolphins and would provide an opportunity for in-depth research on them.

The NDRC is coming up on the 4,400 square metre plot of land on the premises of Patna University, near the banks of the Ganga.

Bihar is home to around half of the estimated 3,000 Gangetic dolphins in India.

About Gangetic Dolphin:

- The Gangetic river dolphin is India's national aquatic animal.
- It is a Schedule I animal under the Wild Life (Protection) Act, 1972.
- It has been declared an endangered species by the International Union for Conservation of Nature (IUCN).
- The Gangetic river dolphin is one of four freshwater dolphin species in the world.
- The other three are found in the Yangtze river in China (now extinct), the Indus river in Pakistan and the Amazon river in South America.
- The dolphin is found in India, Bangladesh and Nepal. It is blind and finds its way and prey in river waters through echolocation.
- Dolphins prefer water that is at least five to eight feet deep. They are usually found in turbulent waters, where there are enough fish for them to feed on.

10 PM Compilation for the Month of July, 2021

- Gangetic dolphins live in a zone where there is little or no current, helping them save energy. If they sense danger, they can dive into deep waters. The dolphins swim from the no-current zone to the edges to hunt for fish and return

Source: [Down To Earth](#)

Q.23) Consider the following statements regarding Gangetic River Dolphin:

1. The dolphin is found in India, Bangladesh and Nepal.
2. It has been declared a vulnerable species under IUCN red list

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Statement 1 is correct

Explanation About Gangetic Dolphin:

- The Gangetic river dolphin is India's national aquatic animal.
- It is a **Schedule I** animal under the Wild Life (Protection) Act, 1972.
- It has been declared an **endangered (EN)** species by the International Union for Conservation of Nature (IUCN).
- The Gangetic river dolphin is **one of four freshwater dolphin species** in the world.
- The other three are found in the Yangtze River in China (now extinct), the Indus river in Pakistan and the Amazon river in South America.
- The dolphin is **found in India, Bangladesh and Nepal**. It is blind and finds its way and prey in river waters through echolocation.
- Dolphins prefer water that is at least five to eight feet deep. They are usually found in turbulent waters, where there are enough fish for them to feed on.
- Gangetic dolphins **live in a zone where there is little or no current**, helping them save energy. If they sense danger, they can dive into deep waters. The dolphins swim from the no-current zone to the edges to hunt for fish and return.

Source: [Article](#)

Q.24) Consider the following statements regarding High-Altitude Yak.

1. They are endemic to the Tibetan Plateau and the adjacent high-altitude regions.
2. National Research Centre on Yak (NRCY) is located at Jammu & Kashmir

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: Recently, the National Research Centre on Yak (NRCY) at Dirang in Arunachal Pradesh's West Kameng district has tied up with the National Insurance Company Ltd. for insuring the high-altitude yak.

10 PM Compilation for the Month of July, 2021

- NRCY is a premier research institute exclusively engaged in research and development of yak in India. It was established in 1989 by the Indian Council of Agricultural Research.
- **About High-Altitude Yak:**
 - The Yak belong to the Bovini tribe, which also includes bison, buffaloes, and cattle. It can tolerate temperatures as low as -40 degrees Celsius.
 - They are endemic to the Tibetan Plateau and the adjacent high-altitude regions.
 - The yak-rearing states of India are Arunachal Pradesh, Sikkim, Uttarakhand, Himachal Pradesh and Jammu & Kashmir.
 - **IUCN Red list status:** Vulnerable
 - **CITES:** Appendix I
 - **Indian Wildlife (Protection) Act of 1972:** Schedule I

Source: [The Hindu](#)

Q.25) Lemru Elephant reserve is proposed to be set up in which of the following states?

- a) Chhattisgarh
- b) Bihar
- c) Odisha
- d) West Bengal

Correct Answer: A

Explanation:

- **Lemru Elephant Reserve** was approved by Chhattisgarh Government in 2005 and got central approval in 2007.
- **Lemru is one of the two elephant reserves** being planned to prevent human-elephant conflict and to provide a permanent habitat for the elephants.
 - **The other is the Badakhhol Tamorpingla Elephant Reserve**, which was approved by the Chhattisgarh Government in 2011. Tamorpingla wildlife sanctuary already exists in the state, but no work on this elephant reserve has begun yet.

Source: [Article](#)

Q.26) Avicennia marina sometimes seen in news is a?

- a) A cold-blooded marine reptilian species
- b) Wetland inhabiting species of sparrow
- c) salt-secreting salt-tolerant mangrove species.
- d) Frog species endemic to western ghats

Correct Answer: C

Explanation:

- **Avicennia marina** is also called Banhi in Odia. It is one of the most prominent mangroves species found in all mangrove formations in India.
- **Features:** It is a salt-secreting and extraordinarily salt-tolerant mangrove species that grows optimally in 75% seawater and tolerates >250% seawater.
- **Significance:** It is among the rare plant species which can excrete 40% of the salt through the salt glands in the leaves, besides its extraordinary capacity to exclude salt entry to the roots.

Source: [Article](#)

10 PM Compilation for the Month of July, 2021

Q.27) Which of the following can be categorized as Cryptogamic plants?

1. Liverworts
2. Ferns
3. Algae

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: D

Explanation:

All of them are cryptogamic plants

- **A cryptogam** is a plant or a plant-like organism that reproduces by spores without flowers or seeds.
- **The term Cryptogamae** means “hidden reproduction”, referring to the fact that no seed is produced. Thus, cryptogams represent the non-seed-bearing plants.
- **Cryptogamic plants** include Algae, mosses, liverworts, lichens, ferns, and fungi

Source: [Article](#)

Q.28) Recently India set up its first Green Hydrogen Mobility Project. In which of the following locations the plant is going to be set up?

- a) Ladakh
- b) Spiti valley
- c) Coorg
- d) Girnar

Correct Answer: A

Explanation: NTPC Renewable Energy Ltd has signed a MoU with the Union Territory of Ladakh to set up India’s First Green Hydrogen Mobility Project in Ladakh Region.

Note: Green Hydrogen is clean hydrogen generated by using renewable energy such as solar power and wind energy. The by-products are water and water vapor.

About India’s First Green Hydrogen Mobility Project:

- **The Green Hydrogen Mobility Project will enable** NTPC to help Ladakh in developing a carbon-free economy based on renewable sources and green hydrogen.
- **Features:** As part of the project, NTPC has planned to ply 5 hydrogen buses in the Ladakh region. The company will also be setting up a solar plant and a green hydrogen generation unit in Leh.
- **Significance:** This project will put Leh as the first city in the country to implement a green hydrogen-based mobility project.

Q.29) Mukundra Tiger Reserve sometimes seen in news is located in?

- a) Maharashtra
- b) Rajasthan
- c) Uttarakhand
- d) Gujarat

10 PM Compilation for the Month of July, 2021

Correct Answer: B

Explanation: The Rajasthan government will develop a tiger corridor connecting the newly proposed '[Ramgarh Tiger Reserve](#)', Ranthambore Tiger Reserve, and Mukundra Hills Tiger Reserve.

Source: [Article](#)

Q.30) Ranthambore Tiger Reserve was recently seen in the news. Which of the following state the reserve is located in?

- Tamil Nadu
- Madhya Pradesh
- Rajasthan
- Maharashtra

Correct Answer: B

Explanation: The Rajasthan government will develop a tiger corridor connecting the newly proposed 'Ramgarh Tiger Reserve', Ranthambore Tiger Reserve, and Mukundra Hills Tiger Reserve.

About the Proposed Tiger Corridor

- **The Proposed Tiger Corridor** will be developed by relocating eight villages.
- **The corridor is being developed** to deal with the issue of overpopulation of tigers, which Ranthambore tiger reserve is facing currently.
- **Ranthambore Tiger Reserve** has a population of around 65 tigers currently. On the other hand, Mukundra reserve is left with just one Tiger.
- **Thus, this tiger corridor** is proposed to balance the population distribution.

About Ranthambore Tiger Reserve

- **Ranthambore National Park and Tiger Reserve** is located in Rajasthan. It is located at the junction of the Aravali and Vindhya hill ranges.
- **River:** The park is bounded to the north by the Banas River and to the south by the Chambal River.
- **Named after:** The park is named after the historic Ranthambore Fort, which lies within the park.
- **Comprises:** Two protected areas namely Kailadevi Wildlife Sanctuary and Sawai Mansingh Wildlife Sanctuary are linked by narrow corridors to the core of Ranthambore NP and all these together comprise the Tiger Reserve.

Read more: [Rajasthan to develop corridor connecting 3 tiger reserves](#)

Q.31) Fit for 55 proposal was sometimes seen in news is related to?

- Achieving Sustainable Development Goals related to healthcare.
- Cutting of Greenhouse Gas emissions & reduce dependence on fossil fuels.
- Awareness campaign promoting various financial products in tier-II cities.
- Elimination of open-defecation practice to curb spread of infectious diseases.

Correct Answer: B

Explanation:

- The European Union has unveiled some of the **world's most ambitious proposals**, titled "**Fit for 55**", to reduce carbon emissions and wean its 27 members off fossil fuels.

10 PM Compilation for the Month of July, 2021

The plan aims to **cut their output of greenhouse gases by 55% by 2030**, compared with 1990 levels.

- The commission's proposals **require endorsement by the European Parliament and leaders of European national governments** before they become law, a process that is expected to take around two years.

Source: [Article](#)

Q.32) Consider the following statements

1. It is the second tiger reserve in the Uttarakhand
2. The Park extends over the Shivalik Range in the northwest to the Rawasan River in the southeast, with the Ganges dividing it into two parts.
3. Some of the basic features of the Shivalik formations are to be seen in the park and is rightly known as a veritable storehouse of Shivalik biodiversity and ecosystems.

Which of the following reserve is described in the statements above?

- a) Jim Corbett National Park
- b) Periyar National Park/Tiger Reserve
- c) Rajaji National Park
- d) Kuno National Park

Correct Answer: C

Explanation:

The Uttarakhand government has decided to keep the Jim Corbett National Park and the Rajaji Tiger Reserve open all year round to boost tourism.

About Rajaji National Park

It is a national park and tiger reserve that encompasses the Shivaliks, near the foothills of the Himalayas.

- It was declared as a tiger reserve in 2015 and is the second tiger reserve in the Uttarakhand and 48th Tiger Reserve of India.
- The park extends over the Shivalik Range in the north-west to the Rawasan River in the southeast with the Ganges dividing it into two parts.
- Some of the basic features of the Shivalik formations are to be seen in the park and is rightly known as a veritable storehouse of Shivalik biodiversity and ecosystems.

Read more: [Rajaji National Park](#)

Source: [Times of India](#)

Q.33) Consider the following statements regarding **Re-wilding** of wild animals.

1. It is the process of releasing abandoned or injured wild animals into the wild after a certain time
2. There is no Standard Operating Guidelines for re-wilding animals in India.
3. Rewilding is so far limited to Tigers alone in India.

Which of the above statements is/are incorrect?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

10 PM Compilation for the Month of July, 2021

Correct Answer: B

Explanation: The Periyar Tiger Reserve (PTR) is trying to reintroduce an abandoned nine-month-old cub into the wild, after rearing it in 'captivity' for two years. This issue has once again brought the controversial concept of 're-wilding' of abandoned or injured animals under the lens.

What is 'Re-wilding'?

- The Standard Operating Guidelines laid down by the National Tiger Conservation Authority (NTCA) under Section 38(O) of Wildlife Protection Act, 1972 provide three ways to deal with orphaned or abandoned tiger cubs:
 - **The first** is to make an effort to reunite the abandoned cubs with their mother.
 - **Second**, if a reunion of the cub with its mother is not possible, then shift the cub to a suitable zoo.
 - **Third**, reintroduction of the cub into the wild after a certain time when it appears that the cub is capable of surviving in the wild independently. This is what is known as 'Re-wilding'.

Rewilding in India:

- **Rewilding** is not limited to cats. There have been efforts to reintroduce other endangered species into the wild after rearing them in captivity.
- **For Example:** Bombay Natural History Society (BNHS) in collaboration with the Haryana Forest and Wildlife Department has been running a vulture conservation centre named '**Jatayu**'.
 - **Under this**, several pairs of endangered gyps species, including the white-backed, the long-billed, and the slender-billed have been successfully introduced into the wild.

Read more: [Explained: The 're-wilding' of wild animals, and the challenges it involves](#)

Q.34) Rajaji national park sometimes in news is located in which of the following states?

- a) Madhya Pradesh
- b) Himachal Pradesh
- c) Jammu & Kashmir
- d) Uttarakhand

Correct Answer: d

Explanation: Rajaji National Park is a national park and tiger reserve that encompasses the Shivaliks, near the foothills of the Himalayas.

- It was declared as a tiger reserve in 2015 and is the second tiger reserve in the Uttarakhand and 48th Tiger Reserve of India.
- The park extends over the Shivalik Range in the northwest to the Rawasan River in the southeast, with the Ganges dividing it into two parts.
- Some of the basic features of the Shivalik formations are to be seen in the park and is rightly known as a **veritable storehouse of Shivalik biodiversity** and ecosystems.
- The western part of the Park consists of the Ramgarh, Kansrao, Motichur, Hardwar, Dholkhand and Chillawali Ranges.

Source: [Article](#)

10 PM Compilation for the Month of July, 2021

Q.35) Consider the followings statements regarding geckos:

1. Most geckos are nocturnal.
2. Indian gold gecko is listed as vulnerable under IUCN red list of species.
3. They are found on all continents except Antarctic.

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: c

Explanation:

- **Statement 1 is correct:** Most geckos are nocturnal, which means they are active at night but day geckos are active during the day and nibble on insects, fruits and flower nectar.
- **Statement 2 is incorrect:** It is listed as Least Concern under IUCN red list of species.
- **Statement 3 is correct:** They are found on all the continents except Antarctica.

Source: [Article](#)

Q.36) Consider the following statements regarding Environment Pollution Control Authority (EPCA):

1. It is a statutory body.
2. One of its functions is to enforce Graded Response Action Plan (GRAP) in NCR as per the pollution levels.

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: a

Explanation:

- Statement 1 is incorrect: EPCA is not a statutory body. It is Supreme-Court mandated body
- Statement 2 is correct

Source: [Article](#)

Q.37) Consider the following statements regarding Microplastics

1. Microplastics are plastics that are less than 5 millimetres in size
2. These are bio-degradable plastics

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

10 PM Compilation for the Month of July, 2021

Correct Answer: A

Explanation: Recently a Delhi-based non-profit Toxic Link stated that the Ganga is heavily polluted with microplastics at Varanasi, Haridwar and Kanpur.

Microplastics are plastics that are less than 5 millimetres in size but are a major source of marine pollution. They are non-degradable plastics.

Some examples are,

- Polyacetylene is used as a doping agent in the electronics industry.
- Polypropylene is also used in packaging, plastic sheets, fibre, fabrics, rope, etc.
- PIP is mainly used in footwear and baby bottle nipples.
- Polyamide, commonly known as nylon, is used as a natural fibre and as metal wires in clothing and industry.

Source: [Down To Earth](#)

Q.38) Consider the following statements regarding **Great Indian Bustard**

1. They are present in Indian subcontinent and Africa
2. They are critically Endangered species
3. They lack frontal vision, due to this, they cannot detect powerlines ahead of them, from far.

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: B

Explanation:

- Great Indian Bustard is one of the heaviest flying birds (weighing up to 15kgs). They inhabit dry grasslands and scrublands on the Indian subcontinent
- **Habitat:** It is endemic to the Indian subcontinent. It is found in Rajasthan (Desert National park), Gujarat, Madhya Pradesh, Karnataka and Andhra Pradesh in India and parts of Pakistan.
- **IUCN Red List:** It is a critically Endangered species with less than 150 birds left in the wild.

The Ministry of Power, in an affidavit, has said: “The Great Indian Bustard (“GIB”) lacks frontal vision. Due to this, they cannot detect powerlines ahead of them, from far. As they are heavy birds, they are unable to manoeuvre across power lines within close distances. Thus, they are vulnerable to collision with power lines.”

Source: [The Hindu](#)

Q.39) Consider the following statements regarding **CBAM [carbon border adjustment mechanism]**

1. It will impose a border fee on imports in carbon-intensive sectors from nations with lower environmental standards
2. Recently the European Commission’s Fit To 55 Package introduces this CBAM

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only

10 PM Compilation for the Month of July, 2021

- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation:

- **Fit To 55** – Recently, The European Commission adopted the Fit for 55 Package of proposals. It aims to make the EU's climate, energy, land use, transportation, and taxation policies fit for lowering greenhouse gas emissions by 55% by 2030 (relative to 1990 levels).
- The Fit for package opens new markets for the Indian industry, for example, electric vehicles. However, **it also introduces a globally unprecedented carbon border adjustment mechanism (CBAM) for pricing imported carbon.**

CBAM will impose a border fee on imports in carbon-intensive sectors like steel, cement, and fertilizers from nations with lower environmental standards than the EU. The scheme would start in 2023 with a transition period until 2025.

Read more: [Implication of EU's new GHG emissions law for Indian industry](#)

Q.40) Consider the following statements regarding **Green Sohra Afforestation Campaign**

1. It is a campaign of the Indian Army.
2. The entire area of Cherrapunji is going to be adopted for plantation.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation: The Union Home Minister has launched the Green Sohra Afforestation Campaign at Sohra (Cherrapunji).

About Green Sohra Afforestation Campaign:

- **Green Sohra Afforestation Campaign** is a campaign of the Assam Rifles.
- **Under the campaign**, the entire area of Cherrapunji is going to be adopted by Assam Rifles for plantation.
- **So when the trees are cut for fuel and other uses**, 80% of the total land will be planted with traditional and long lifespan trees. The remaining 20% will be used for animal feed, ornamental plants, and nursery which will meet all the requirements and help reduce the feeling of long lifespan trees.
- **With this technique**, multi-level farming is done, and the forest grows 30 times faster and after 3 years it becomes free of maintenance.

Read more: [Union Home Minister launches the Green Sohra Afforestation Campaign](#)

Q.41) Consider the following statements regarding **Agar wood**

1. The agarwood tree oil is also known as liquid gold.
2. IUCN has listed Agarwood under the critically endangered category.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2

10 PM Compilation for the Month of July, 2021

d) Neither 1 nor 2

Correct Answer: C

Explanation: Tripura government has come up with Tripura Agar Wood Policy 2021', which proposed to double agar wood plantation by 2025.

About Agarwood:

- The agarwood tree (*Aquilaria malaccensis*) oil is also known as liquid gold.
- A litre of agar oil costs Rs 5 lakh in the global market. Agar is used in perfumeries and other industries
- IUCN has listed it under the critically endangered category.
- The agarwood tree is native to Northeast India, Bangladesh, Bhutan and parts of Southeast Asia.
- It is an evergreen tree that can grow to 40 metres.

Source: [The Economic Times](#)

Q.42) Consider the following statements regarding **Indian leopard**

1. It is under Vulnerable category in IUCN Red list
2. Except desert and mangroves of Sundarbans leopards are present in all type of forests

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation: The environment minister has recently released the report 'Status of Leopards, Co-predators and Megaherbivores-2018'. The report points out that India's official leopard count increased 63 percent from 2014-2018.

About Indian Leopard or Common Leopard:

- The Indian leopard (*Panthera pardus fusca*) is a leopard subspecies widely distributed on the Indian subcontinent. These are the smallest of the big cats, known for their ability to adapt to a variety of habitats.
- **Vegetation:** In India, the leopard is found in all forest types, from tropical rainforests to temperate deciduous and alpine coniferous forests. It is also found in dry scrubs and grasslands, the only exception being desert and the mangroves of Sundarbans.
- **Distribution:** Its range stretches from the Indus river in the west, the Himalayas in the north, and all the way to the lower course of the Brahmaputra in the east.
- **Conservation Status:**
 - **IUCN Red List:** Vulnerable
 - **Wildlife (Protection) Act, 1972:** Schedule I
 - **CITES:** Appendix I

Source: [Down To Earth](#)

Q.43) Parambikulam Tiger Reserve sometimes seen in news is located in?

- a) Telangana
- b) Kerala
- c) Andhra Pradesh

10 PM Compilation for the Month of July, 2021

d) Tamil Nadu

Correct Answer: b

Explanation:

India's 14 tiger reserves that have received the accreditation of the Global Conservation Assured | Tiger Standards (CA | TS) are:

- Manas, Kaziranga and Orang Tiger Reserve in Assam
- Satpura, Kanha, and Panna in Madhya Pradesh
- Pench in Maharashtra
- Valmiki Tiger Reserve in Bihar
- Dudhwa in Uttar Pradesh
- Sunderbans in West Bengal
- **Parambikulam in Kerala,**
- Bandipur Tiger Reserve of Karnataka
- Mudumalai and Anamalai Tiger Reserve in Tamil Nadu

Source: [Article](#)

Q.44) Consider the following statements regarding Living root bridges:

1. Secondary root systems of the trees are weaved together to form these bridges.
2. They are built by Khasi and Jaintia communities.

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: d

Explanation:

Both statements are correct

- Meghalaya region has some of the highest rainfall in the world. When the monsoon comes, the rivers rushing by take out all the bridges, except for the living root bridges grown by the Khasi and Jaintia people.
- These are built out of rubber fig trees planted near rivers by the community. They train the trees to grow across rivers and then, using bamboo scaffolding, they weave their secondary root systems together — after some years, you get a living root bridge. There are about 30 such bridges today and these were the most structurally efficient system possible

10 PM Compilation for the Month of July, 2021

POLITY

Q.1) What does the Prakash Singh & Ors vs Union of India & Ors case relate to?

- Judicial review in the 9th schedule
- Police reforms in India
- Right to fair trial of the victims
- Decriminalization of electoral politics

Correct Answer: B

Explanation

In 2006, the Supreme Court issued following directives for police reform in Prakash Singh and others vs Union of India and others.

- Fixing the tenure and selection of the DGP to avoid situations where officers about to retire in a few months are given the post.
- A minimum tenure was sought for the Inspector General of Police so that they are not transferred mid-term by politicians.
- Postings of officers being done by Police Establishment Boards (PEB) comprising police officers and senior bureaucrats
- Setting up the State Police Complaints Authority (SPCA)
- Separation of investigation and law and order functions to better improve policing
- Setting up State Security Commissions (SSC) that would have members from civil society and forming a National Security Commission.

Source: [Article](#)

Q.2) Consider the following statements regarding Attorney General (AG) of India

1. S/he must be a person who is qualified to be appointed a judge of the Supreme Court
2. Procedures and grounds for the removal of AG is similar to the Judge of the Supreme Court

Which of the statements given above is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

Correct answer: A

Explanation:

The central government has extended the term of K.K. Venugopal as Attorney General (AG) for one more year.

About the Attorney General (AG) of India:

- The Attorney General (AG) of India is a part of the Union Executive. AG is the highest law officer in the country.
- **Appointment:** AG is appointed by the President on the advice of the government. S/he must be a person who is qualified to be appointed a judge of the Supreme Court. i.e.
 - s/he must be a citizen of India
 - S/he must have been a judge of some high court for five years or an advocate of some high court for ten years or an eminent jurist, in the opinion of the President.

10 PM Compilation for the Month of July, 2021

- Procedures and grounds for the removal of AG are not mentioned in the Constitution. S/he holds office during the pleasure of the President (may be removed by the President at any time).

Source: [The Hindu](#)

Q.3) Consider the following statements regarding **Central government and Union Government debate**.

1. The term Central government is not used in the original Constitution as passed by the Constituent Assembly.
2. Recently, the Tamil Nadu government decided to use Central Government instead of Union Government.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct answer: A

Explanation:

Recently, the Tamil Nadu government has decided to shun the usage of the term 'Central government' in its official communications and replace it with 'Union government'. The state government provided reasons such as,

- After going through the 395 Articles in 22 Parts and eight Schedules in the original Constitution, it can be stated that the term 'Centre' or 'Central government' is nowhere used.
- Even though there is no reference to the 'Central government' in the original Constitution, the General Clauses Act, 1897 gives a definition for it.
- Therefore, the real question is whether such definition for 'Central government' is constitutional as the Constitution itself does not approve of centralising power.

Which is better?

- 'Centre' or 'Central government' has a tendency of centralising powers in one unit.
- The 'Union government' or the 'Government of India' has a unifying effect as the message sought to be given is that the government is of all.
- According to Subash Kashyap, using the term 'Centre' or 'central government' would mean state governments are subservient to it.

Source: [The Indian Express](#)

Q.4) Consider the following statements regarding **National Disaster Management Authority (NDMA)**

- a) It functions under the Ministry of Home Affairs.
- b) The President is the ex-officio chairperson of the NDMA

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

10 PM Compilation for the Month of July, 2021

Correct answer: A

Explanation:

The Supreme Court directed the National Disaster Management Authority (NDMA) to frame guidelines for payment of ex-gratia compensation to family members of persons who succumbed to COVID-19.

About NDMA:

- **Objective:** To coordinate response to natural or man-made disasters and for capacity-building in disaster resiliency and crisis response.
- It functions under the Ministry of Home Affairs.
- The Prime Minister is the ex-officio chairperson of the NDMA. S/he chairs a 9-member board.

Source: [The Hindu](#)

Q.5) Consider the following statements regarding the seat of Supreme Court in India:

1. Constitution of India provides for Delhi to be seat of the Supreme Court.
2. The Supreme Court can sit at any places as determined by the Parliament from time to time.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- The Constitution of India has specific provision for seat of the Supreme Court under the Article 130, which states that:
- “The Supreme Court shall sit in Delhi or in such other place or places, as the Chief Justice of India may, with the approval of the President, from time to time, appoint.”
- Other seats/benches for the Supreme Court have been suggested by various Bar Councils as well as current Attorney General of India.

Q.6) Consider the following statements regarding Rajyasabha:

1. A bill for amendment to the constitution cannot be introduced in Rajya Sabha.
2. A Rajya Sabha resolution supported by not less than two thirds of the members present and voting empowers the parliament for creation of a new All India Service.

Which of the above statement is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: b

Explanation:

- **Statement 1 is incorrect:** The bill for amendment to the constitution under Article 368 can be introduced in either house of the parliament.
- **Statement 2 is correct: Article 312** of the constitution states “... if the Council of States has declared by resolution supported by not less than two thirds of the members present and

10 PM Compilation for the Month of July, 2021

voting that it is necessary or expedient in the national interest so to do, Parliament may by law provide for the creation of one or more all India services...”

Q.7) Consider the following statements regarding Draft Consumer Protection Rules (Direct Selling) 2021:

1. Every direct selling entity carrying business in India will be required to have at least one office in India.
2. No direct selling entity will be allowed to participate in any money circulation Scheme except those authorized by RBI

Which of the above statement is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- **Statement 1 is correct:** As per draft rules every direct selling entity carrying out business in India will have to be registered with the Department for Promotion of Industry and Internal Trade (DPIIT) and must have at least one office in India.
- **Statement 2 is incorrect:** Money circulation schemes are banned under the Prize chits and money circulation schemes (banning) act 1978 and the respective State Governments have the power to take action against the persons involved in such schemes.

Source: [Article](#)

Q.8) Nandini Sundar & others versus the State of Chhattisgarh judgement is related to?

- a) Protection of tribal rights by curbing misuse of govt power
- b) Constitutional validity of section 377 of IPC
- c) reservation for economically backward categories
- d) Prevention of sexual harassment at the workplace

Correct Answer: A

Explanation

- The Supreme Court (SC) delivered a historic judgment on 5th July 2011 in **Nandini Sundar and others versus the State of Chhattisgarh case**.
- The judgment was aimed to curb the misuse of power by the government and protect tribal rights.

About the Judgment:

- The court **banned Salwa Judum**. It was a vigilante movement started in 2005 and sponsored by the Chhattisgarh and Central government. The movement ostensibly aimed to fight against the Maoists.
- The judges also ruled that the use of **surrendered Maoists and untrained villagers in frontline counter-insurgency operations** as Special Police Officers (SPOs) was unconstitutional.
 - It directed that the existing **SPOs be redeployed in traffic management or other such safe duties**.

10 PM Compilation for the Month of July, 2021

- **Other matters like** prosecution of security forces for human rights violations, and rehabilitation of villagers who had suffered violence, **were left pending**. The State had been asked to submit comprehensive plans for this.

Source: [Article](#)

Q.9) Shetty Commission sometimes seen in news is related to?

- a) Pay structure, allowances and conditions of service of Judicial Officers.
- b) Development and Management of Social Sector/Services
- c) introduction of carbon taxes and incentives for renewable energy
- d) Reforming PSU banks' corporate lending mechanism.

Correct Answer: A

Explanation:

First National Judicial Pay Commission

- It was constituted in 1996, pursuant to the order of the Supreme Court of India in All India Judges Association case.
- It was headed by Justice K. Jagannatha Shetty, former Judge of the Supreme Court.
- It was also referred to as the Justice Shetty Commission.
- The commission gave a comprehensive report in the year 1999, covering not merely the pay structure, allowances and conditions of service of Judicial Officers but also various other aspects concerning the Courts and judicial administration.

Source: [Article](#)

Q.10) Consider the following statements regarding Central Information Commission (CIC).

1. It was established by the Right to Information Act (2005).
2. The Chief Information Commissioner is eligible for reappointment.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

The Supreme Court has directed the Union of India and all States to file status reports on the latest developments regarding vacancies and pendency in the Central Information Commission (CIC) and State Information Commissions (SICs).

About Central Information Commission (CIC):

- The CIC was established by the Central Government in 2005, under the provisions of the Right to Information Act (2005). It is not a constitutional body.
- It consists of a Chief Information Commissioner and not more than ten Information Commissioners.
- The Chief Information Commissioner and an Information Commissioner shall hold office for such term as prescribed by the Central Government or until they attain the age of 65 years, whichever is earlier. They are not eligible for reappointment.

10 PM Compilation for the Month of July, 2021

- They are appointed by the President on the recommendation of a committee consisting of the Prime Minister as Chairperson, the Leader of Opposition in the Lok Sabha and a Union Cabinet Minister nominated by the Prime Minister.

Source: [The Hindu](#)

Q.11) Consider the following statements:

1. As per Constitution, any law made by the State which abridges the Fundamental Rights and Directive Principles of State Policy shall be void.
2. Any amendment of the Constitution made under Article 368 does not fall under the definition of 'law' under Article 13 of Constitution.

Which of the statements given above is/are correct?

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation:

- **Statement 1 is incorrect.** The protection against the laws by Parliament is not provided to Directive Principles as it is explicitly provided to Fundamental Rights under Article 13. Article 13(2) state that the State shall not make any law which takes away or abridges the rights conferred by this Part and any law made in contravention of this clause shall, to the extent of the contravention, be void.
- **Statement 2 is correct.** Article 13(3): In this article, unless the context otherwise requires,—
 - (a) "law" includes any Ordinance, order, bye-law, rule, regulation, notification, custom or usage having in the territory of India the force of law;
 - (b) "laws in force" includes laws passed or made by a Legislature or other competent authority in the territory of India before the commencement of this Constitution and not previously repealed, notwithstanding that any such law or any part thereof may not be then in operation either at all or in particular areas.

Article 13(4) Nothing in this article shall apply to any amendment of this Constitution made under article 368.

Q.12) Conjugal Rights was sometimes seen in news. Which of the following correctly explains this right?

- a) This is the right granted to undertrial persons.
- b) This is the right granted to a vaccine manufacturer to provide immunity from vaccine impacts.
- c) This is the right created by marriage such as right of the husband or the wife to the society of the other spouse.
- d) This is the right granted to persons arrested under the provisions of the Unlawful Activities (Prevention) Act (UAPA)

10 PM Compilation for the Month of July, 2021

Correct Answer: C

Explanation: The Supreme Court (SC) is going to hear a fresh challenge to the provision allowing restitution (recovery) of conjugal rights under Hindu personal laws (Hindu Marriage act 1955).

Conjugal Rights:

- Conjugal rights are rights created by marriage, i.e. right of the husband or the wife to the society of the other spouse.
- Section 9 of the Hindu Marriage Act recognises one aspect of conjugal rights — the right to consortium and protects it by allowing a spouse to move court to enforce the right.
- Similar provisions exist in Muslim personal law as well as the Divorce Act, 1869, which governs Christian family law.

Source: [The Indian Express](#)

Q.13) Brandenburg Test often in news is related to?

- a) Right to diplomatic immunity
- b) Right to free speech
- c) Right to free legal aid
- d) Right against self-incrimination

Correct Answer: b

Explanation:

- The Brandenburg test was established in *Brandenburg v. Ohio*, **to determine when inflammatory speech intending to advocate illegal action can be restricted.**
- **Detail:** In *Brandenburg v. Ohio* (1969), the ‘clear and present danger’ test was expanded, and the ‘imminent lawless action’ test was laid down by the U.S. Supreme Court, which the court has followed since. This test states, **“The constitutional guarantees of free speech and free press do not permit the state to forbid or proscribe advocacy of the use of force or of law violation, except where such advocacy is directed to inciting or producing imminent lawless action”.**
- The word ‘imminent’ used in the judgment is very important. Imminent means ‘likely to happen very soon,’ ‘at hand,’ or ‘fast approaching.’

Source: [Article](#)

Q.14) Consider the following statements regarding various types of diversity

1. Melting pot diversity is a metaphor for the way a multicultural society can integrate different cultures while maintaining their separate identities
2. Salad bowl diversity is defined as a place where people of different ethnic origins and cultures all come together to mix and merge, creating a new culture

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

10 PM Compilation for the Month of July, 2021

Correct Answer: d

Explanation:

Salad Bowl: A salad bowl or tossed salad is a metaphor for the way a multicultural society can integrate different cultures while maintaining their separate identities, contrasting with a melting pot, which emphasizes the combination of the parts into a single whole. ([Article](#))

Melting pot: The term melting pot is defined as a place where people of different ethnic origins and cultures all come together to mix and merge, creating a new culture — not necessarily a monolithic or homogeneous one, but one that is reflective of some sort of shared template for society. For example, America. ([Article](#))

Read more: [Accepting radical otherness](#)

Q.15) Consider the following statements regarding Marine Aids to Navigation Bill 2021:

1. The Bill applies to territorial waters, continental shelf, and exclusive economic zone.
2. State governments will be able to designate any aid to navigation as a heritage lighthouse.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- **Statement 1 is correct:** The Bill applies to the whole of India including various maritime zones including territorial waters, continental shelf, and exclusive economic zone.
- **Statement 2 is incorrect:** The Central Government, not state govt, can designate any aid to navigation under its control as a “heritage lighthouse”. In addition to their function as aids to navigation, such lighthouses will be developed for educational, cultural, and tourism purposes

Source: [Article](#)

Q.16) Shibulal task force was sometimes seen in news. It is related to which of the following?

- a) Smart Cities Mission
- b) Digital India
- c) Mission Karmayogi
- d) Atal Innovation Mission

Correct Answer: C

Explanation:

Former Infosys CEO SD Shibu Lal was recently appointed as chairperson of a three-member task force which will assist in bringing major bureaucratic reforms through "Mission Karmayogi".

Source: [Article](#)

10 PM Compilation for the Month of July, 2021

MISC

Q.1) Sunil Mehta committee sometimes seen in news is related to?

- a) Resolution of stressed assets
- b) NBFC sector reforms
- c) Rural microfinance Institutions
- d) Long-term food policy

Correct Answer: a

Explanation

- A committee under Sunil Mehta was set up to give recommendation on formation of an Asset Reconstruction Company for quicker resolution on stressed assets

Source: [Article](#)

Q.2) The term 'TENG', sometimes seen in news is related to which of the following?

- a) A nanogenerator device
- b) Gene-editing tool
- c) Night-Vision amplifier
- d) A super capacitor

Correct Answer: a

Explanation

- A triboelectric nanogenerator (TENG) is a self-powered device that makes use of mechanical energy in the form of vibrations present everywhere in different forms to generate electricity.

Source: [Article](#)

Q.3) Consider the following statements regarding iDEX:

1. It aims to promote innovation and technology development in both Defence and Aerospace sectors.
2. Defence Innovation Organization, a non-profit, shall manage iDEX.

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: d

Explanation:

Both statements are correct

- **Innovations for Defence Excellence (iDEX)** was launched by the Government of India in 2018.
- **Aim:** It aims to create an ecosystem to promote innovation and technology development in Defence and Aerospace. For that, it will attract industries including MSMEs, start-ups, individual innovators, R&D institutes & academia.

10 PM Compilation for the Month of July, 2021

- It will also provide grants/funding and other support to them to carry out R&D. However, R&D should have a good potential for future adoption for Indian defence and aerospace needs.
- **Objectives of IDEX:**
 - **Facilitate rapid development** of new, indigenized, and innovative technologies for the Indian defence and aerospace sector in shorter timelines.
 - **Create a culture** of engagement with innovative startups, to encourage co-creation for defence and aerospace sectors.
 - **Empower a culture of technology** co-creation and co-innovation within the defence and aerospace sectors.
- **Nodal Body:** iDEX will be funded and managed by Defence Innovation Organisation (DIO).
 - Defence Innovation Organisation (DIO) is a not-for-profit Organisation, incorporated under Section 8 of the Companies Act.

Source: [Article](#)

Q.4) Konkan is a bilateral maritime exercise between India and which other country?

- a) UK
- b) Thailand
- c) USA
- d) France

Correct Answer: A

Explanation:

- It is an annual maritime bilateral exercise between Indian Navy and the Royal Navy of Britain.

Q.5) Mendez principles sometimes seen in news are?

- a) set of standards for non-coercive interviewing
- b) safeguards to be followed at nuclear installations
- c) ethical best practices in the area of genetic testing
- d) vaccination protocols governing prisoners of war

Correct Answer: A

Explanation:

- These principles called for the development of a universal set of standards for non-coercive interviewing and associated procedural safeguards during investigations to ensure that no person — including suspects, witnesses, victims, and other persons being interviewed — is subjected to torture, ill-treatment, or coercion while being questioned.

Source: [Article](#)

Q.6) Global Economic Prospects Report is released by?

- a) IMF
- b) WEF
- c) WB
- d) UNDP

10 PM Compilation for the Month of July, 2021

Correct Answer: C

Explanation:

- Global Economic Prospects report is released by World Bank

Source: [Article](#)

Q.7) Which of the following countries is/are a part of G4?

1. India
2. Germany
3. Australia

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: A

Explanation:

- The G4 nations comprising Brazil, Germany, India, and Japan are four countries which support each other's bids for permanent seats on the United Nations Security Council.

Source: [Article](#)

Q.8) Consider the following statements:

1. Wasting is defined as low weight-for-age.
2. A child who is underweight may be stunted, wasted or both.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation:

- **Statement 1 is incorrect:** Wasting is defined as low weight-for-height. It often indicates recent and severe weight loss, although it can also persist for a long time.
- **Statement 2 is correct:** Underweight is defined as low weight-for-age. A child who is underweight may be stunted, wasted or both.

Source: [Article](#)

Q.9) Consider the following statements regarding the concept of state immunity as recognized in the international law:

1. It safeguards a state's property against the jurisdiction of another country's domestic courts.
2. There is no international legal instrument in force administering its implementation.
3. India has ratified the United Nations Convention on Jurisdictional Immunities of States and Their Property (UNSCI).

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 and 3 only

10 PM Compilation for the Month of July, 2021

- c) 3 only
- d) 1, 2 and 3

Correct Answer: c

Explanation:

Only Statement 3 is incorrect.

State immunity is a well-recognized doctrine in international law which safeguards a state and its property against the jurisdiction of another country's domestic courts.

- This covers immunity from both **jurisdiction** and **execution**.
- Despite the universal acceptance of this doctrine, there is **no international legal instrument in force administering its implementation** in municipal legal systems of different countries.
- Attempts are underway to create binding international law on the application of the rules of state immunity, such as the **United Nations Convention on Jurisdictional Immunities of States and Their Property (UNSCI)**. However, this convention is **yet to be ratified by 30 countries** — the minimum number required to bring it in force, as per Article 30 (1) of UNSCI.
- India has **signed** the convention, but **not ratified** it.

Source: [Article](#)

Q.10) Which of the following statements correctly define B3W?

- a) Proposal by G7 to address infrastructure investment deficit in developing & lower income countries.
- b) Anti-money laundering initiative by Organization for Economic Cooperation and Development.
- c) Global coalition to build back a resilient environment by limiting global warming under 1.5°C.
- d) A manufacturing and distribution initiative by WHO to provide COVID vaccines to low-income countries.

Correct Answer: a

Explanation: G-7 leaders have proposed Build Back Better World (B3W) to counter China's rising influence across 100-plus countries through **Belt and Road Initiative** (BRI) projects. BRI projects are perceived as debt traps laid by China for its **strategic dominance** in trade, foreign policy and geopolitics in the world. The proposal, though at an early stage, aims to address the **infrastructure investment deficit** in developing and lower income countries. China has capitalized on this gap through its 2,600 BRI projects with trillions of dollars of investment.

Source: [Article](#)

10 PM Compilation for the Month of July, 2021

MAPPING

Q.1) Arrange the following from North to South:

1. Hokkaido
2. Kyushu
3. Shikoku
4. Honshu

Select the correct answer from the codes given below:

- a) 4-2-1-3
- b) 1-4-3-2
- c) 2-3-4-1
- d) 3-2-4-1

Correct Answer: b

Explanation

4 major islands of Japan from North to South are:

- Hokkaido
- Honshu
- Shikoku
- Kyushu

Source: [Article](#)

Q.2) Arrange the following straits from North to South:

1. Kerch
2. Dardanelles
3. Bosphorus

Select the correct answer from the codes given below:

- a) 1-2-3
- b) 3-2-1
- c) 2-1-3
- d) 1-3-2

Correct Answer: d

Explanation

- The correct order is – Kerch Strait – Bosphorus Strait – Dardanelles Strait

Source: [Places in news](#)

Q.3) Which of the following countries is/are not a part of the SAHEL region?

1. Tanzania
2. Nigeria
3. Burkina Faso

Select the correct answer from the codes given below:

- a) 1 only
- b) 1 and 2 only
- c) 3 only
- d) 1, 2 and 3 only

10 PM Compilation for the Month of July, 2021

Correct Answer: a

Explanation:

The Sahel stretches from the Atlantic Ocean eastward through the following countries:

- Senegal
- Mauritania
- Mali
- **Burkina Faso** (formerly Upper Volta)
- Niger
- **Nigeria**
- Chad
- Sudan
- Eritrea
- Ethiopia

Source: [Places in news](#)

Q.4) Which of the following mountain pass(s) is/are correctly matched to their State/UT?

- Bomdila Pass – Arunachal Pradesh
- Sela Pass – Ladakh
- Zozila Pass – Himachal Pradesh

Select the correct answer using the codes given below:

- 1 only
- 2 and 3 only
- 1 and 2 only
- 1, 2 and 3

Correct Answer: A

Explanation:

- **Option 1 is correctly matched:** The Bomdi-La pass in Arunachal Pradesh connects it with Lhasa, the capital city of Tibet.
- **Option 2 is incorrectly matched:** The Sela Pass is a high-altitude mountain pass located on the border between the Tawang and West Kameng Districts of Arunachal Pradesh state in India.
- **Option 3 is incorrectly matched:** Zoji La pass in the Himalayas in the Union territory of Ladakh connects the Kashmir Valley to its west with the Drass and Suru valleys to its northeast and the Indus valley further east.

Q.5) Arrange the following seas from North to South:

- Adriatic
- Mediterranean
- Ionian

Select the correct answer from the codes given below:

- 1-2-3
- 2-1-3
- 1-3-2
- 2-3-1

10 PM Compilation for the Month of July, 2021

Correct Answer: C

Explanation:

The correct order from North to South is -

- Adriatic
- Ionian
- Mediterranean

Q.6) Which of the following countries share a border with Black Sea?

1. Turkey
2. Greece
3. Serbia

Select the correct answer from the codes given below:

- a) 1 only
- b) 1 and 3 only
- c) 2 only
- d) 1, 2 and 3

Correct Answer: A

Explanation: Greece and Serbia do not share a border with Black Sea. Following countries do:

- Bulgaria, Georgia, Romania, Russia, Turkey, and Ukraine.

Q.7) Arrange the following lakes from north to south:

1. Edward
2. Kivu
3. Albert

Select the correct answer from the codes given below:

- a) 1-2-3
- b) 3-2-1
- c) 1-3-2
- d) 3-1-2

Correct Answer: D

Explanation:

Correct order is -

- Lake Albert
- Lake Edward
- Lake Kivu

Source: [Article](#)

Q.8) Which of the following countries share border with Iran?

1. Kuwait
2. Armenia
3. Turkey

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only

10 PM Compilation for the Month of July, 2021

d) 1, 2 and 3

Correct Answer: B

Explanation: Kuwait doesn't share a border with Iran.

Countries bordering Iran are:

- Pakistan
- Afghanistan
- Turkmenistan
- Azerbaijan
- Armenia
- Turkey
- Iraq

Q.9) Arrange the following islands from North to South:

1. Ascension
2. St Helena
3. Tristan da Cunha

Select the correct answer from the codes given below:

- a) 1-2-3
- b) 3-1-2
- c) 1-3-2
- d) 3-2-1

Correct Answer: A

Explanation:

- **Correct order from North to South is:** Ascension islands – St Helena – Tristan da Cunha

Source: [Places in news](#)

10 PM Compilation for the Month of July, 2021

ECONOMY

Q.1) Which of the following steps is/are taken by the government following a counter-cyclical fiscal policy:

1. Increase in expenditure during a recession or a slowdown.
2. Raising of tax rates during an economic boom.

Select the correct answer using the codes given below:

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation

- Counter-cyclical Fiscal Policy refers to the steps taken by the government that go against the direction of the economic or business cycle.
- This means that during a recession or slowdown, the government increases expenditure and reduces taxes to create a demand that can drive an economic boom.
- On the other hand, during a boom in the economy, the policy aims at raising taxes and cutting public expenditure to control inflation and debt.

Source: [Article](#)

Q.2) Public Private Partnership (PPP) is routinely seen in news. In this respect consider the following statements:

1. It can be a partnership between a government or govt-owned entity on one side and a private sector entity on the other.
2. Government shares a minimal risk with the private sector.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation

- Statement 1 is correct: Infrastructure projects owned, developed and implemented jointly by the Government and private sector, through a partnership arrangement. Public Private Partnership means an arrangement between government or statutory entity or government owned entity on one side and a private sector entity on the other, for the provision of public assets and/or related services for public benefit, through investments being made by and/or management undertaken by the private sector entity for a specified period of time
- Statement 2 is incorrect: A substantial risk sharing with the private sector is involved and the private sector receives performance linked payments that conform (or are benchmarked) to specified and pre-determined performance standards, measurable by the public entity or its representative.

Source: [Article](#)

10 PM Compilation for the Month of July, 2021

Q.3) Consider the following statements regarding Independent Director of a company:

1. He/She represents minority shareholders in a company.
2. All listed public companies need to have at least one-third of the total Directors as Independent Directors.

Which of the above statements is/ are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation:

Both statements are correct

- An independent Director is a director on a board of directors representing minority shareholders. He/she does not have a pecuniary relationship with the company or related persons, except for sitting fees.
- Their role is to take an unambiguously and independently stand to have a check and balance on the majority shareholders. It reduces exposure of the company to unwarranted risks.
- As per the Companies Act, 2013 all listed public companies need to have at least one-third of the total Directors to be independent.

Source: [Article](#)

Q.4) Which of the following statement is correct regarding accredited investors?

- a) They are not government by rules of SEBI.
- b) An investor needs to have an annual income greater than ₹20 crores to become an accredited investor.
- c) They get relaxation in the minimum amount to be invested in the Alternative Investment Funds (AIF).
- d) Accredited Investors are those investors, who have passed a certification course from the government institute.

Correct Answer: C

Explanation:

Statement 1 is incorrect. Securities and Exchange Board of India(SEBI) has come up with a framework for creating so-called accredited investors.

Statement 2 is incorrect. An investor need to have an annual income greater than ₹2 crores to become an accredited investor.

Statement 3 is correct. They get relaxation in the minimum amount to be invested in the Alternative Investment Funds (AIF)

Statement 4 is incorrect. Accredited Investors are those investors who may be considered to be well-informed or well-advised about investment products.

10 PM Compilation for the Month of July, 2021

Q.5) Consider the following statement regarding Consumer Price Index (CPI):

1. Amongst all four measures of CPI in India, data for only CPI(IW) is released by Central Statistics Office.
2. RBI has adopted CPI as the key measure for determining the inflation situation of the Indian economy.

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: d

Explanation:

Both statements are correct

- Four types of CPI are as follows:
 - CPI for Industrial Workers (IW).
 - CPI for Agricultural Labourer (AL).
 - CPI for Rural Labourer (RL).
 - CPI (Rural/Urban/Combined).
- Of these, the first three are compiled by the Labour Bureau in the Ministry of Labour and Employment. Fourth is compiled by the Central Statistics Office (CSO) in the Ministry of Statistics and Programme Implementation
- RBI has adopted CPI as the key measure for determining the inflation situation of the Indian economy on the recommendation of the Urjit Patel Committee.

Source: [Article](#)

Q.6) Shares with superior voting rights (SR shares) was seen in news. In this respect, consider the following statements:

1. Currently, SR shares can be granted only to promoters and founders.
2. Major aim of superior voting rights framework is to attract large scale FDI into India's tech firms.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- **The Securities and Exchange Board of India (SEBI)** has introduced the Superior Voting Rights (SR) Framework in 2019.
- **Aim of the framework:** to allow the founders of technology start-ups to retain control of their companies after they started trading publicly.
- **Need:** Promoters or founders of tech companies who are instrumental in starting up a company often lose control of the firm when they dilute their stakes to raise multiple rounds of funding.

10 PM Compilation for the Month of July, 2021

- Currently SR shares can be granted only to promoters and founders. In a consultation paper, SEBI has said that trusts and other corporate structures could be made eligible.

Source: [Article](#)

Q.7) Consider the following statements regarding **Equalisation Levy**

1. The tax is applicable to both resident and non-resident digital service providers.
2. Companies with a turnover of more than Rs. 2 crores, will pay this levy.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation:

India recently joined the OECD-G20 framework for a global minimum tax. As per the deal, India needs to withdraw the contentious 2 percent equalisation levy on e-commerce operators by 2023.

About Equalisation Levy:

In 2016 India introduced a 6% equalisation levy. But the levy was restricted to online advertisement services (commonly known as “**digital advertising taxes**” or DATs). In simple terms, the levy applied on the payments made to a non-resident by the Indians for advertising on their platform.

The government in 2020 introduced an amendment to the equalisation levy in the Finance Bill 2020-21. The important amendments include,

- A **2% Digital Service Tax (DST)** was imposed on non-resident, digital service providers. With this amendment, the **foreign digital service providers** have to pay their fair share of **tax on revenues generated in the Indian digital market**.
- The amendment **widens the tax to include a range of digital services**. These services include digital platform services, software as a service, data-related services, and several other categories including e-commerce operations.
- Companies with a turnover of more than Rs. 2 crores, will pay this tax.

Source: [Business Standard](#)

Q.8) Consider the following statements regarding **Current and Capital Account Convertibility**

1. Capital account convertibility allows us to carry out all investment transactions across geographies without constraints
2. India has full Capital Account Convertibility, but Current Account Convertibility is still a work in progress.
3. Current account convertibility gives us the freedom to convert the rupee into any internationally accepted currencies and vice versa

Which of the statements given above is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

10 PM Compilation for the Month of July, 2021

Correct Answer: C

Explanation: Since August 1993, there is full current account convertibility in India but capital account convertibility is still a work in progress. **(Statement 2 is wrong)**

Current Account Convertibility gives us the freedom to convert the rupee into any internationally accepted currencies and vice versa. On the other hand, the Capital Account Convertibility allows us to carry out all investment transactions across geographies without constraints.

Source: [Business Standard](#)

Q.9) Consider the following statements regarding **Debt Recovery Tribunals**

1. They are established under the Securitisation and Reconstruction of Financial Assets and Enforcement of Securities Interest (SARFAESI) Act
2. An application for recovery of debt can be made to the DRTs for all debts valued at more than 20 lakhs.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation:

About Debt Recovery Tribunals(DRT):

- Debt Recovery Tribunals have been established following the passing of the Recovery of Debts due to Banks and Financial Institutions Act (RDDBFI), 1993.
- The primary goal and function of DRT is the recovery of loaned money from borrowers which is owed to banks and financial institutions from customers.
- This Tribunal is also the second court of appeal in respect of cases filed under The Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest(SARFAESI) Act, 2002.

Jurisdiction:

- An application for recovery of debt can be made to the DRTs for all debts valued at more than 20 lakhs. For lesser amounts, the banks and financial institutions can approach Civil Courts.
- No court in the country other than the Supreme Court(SC) and the High Court(HC) and that too only under articles 226 and 227 of the Constitution have jurisdiction against a judgment of DRAT.

Source: [Livemint](#)

Q.10) Consider the following statements regarding **Insolvency and Bankruptcy Code**

1. National Company Law Tribunal(NCLT) is the adjudicating authority for companies and limited liability entities
2. Defaulter and the creditors cannot close the insolvency case in any condition.
3. Debt Recovery Tribunal is the adjudicating authority for individuals and partnership firms

Which of the statements given above is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only

10 PM Compilation for the Month of July, 2021

- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: C

Explanation:

- The Insolvency and Bankruptcy code replaced all the existing laws and created a uniform procedure to resolve insolvency and bankruptcy disputes.
- It allows creditors to assess the viability of a debtor as a business decision. Further, the creditors can agree with the plan for its revival or suggest for a speedy liquidation.
- The Code creates a **new institutional framework**. This framework facilitated a formal and time-bound insolvency resolution process and liquidation.
 - **National Company Law Tribunal(NCLT):** It is the adjudicating authority for companies and limited liability entities
 - **Debt Recovery Tribunal:** It is the adjudicating authority for individuals and partnership firms.
- **Section 12A under the IBC:** This section allows the **defaulter and the creditors to close the insolvency case**. With banks going in for a one-time settlement with defaulting promoters. This is being **used as a loophole under the IBC**

Source: [Livemint](#)

Q.11) Which of the following is/are the function(s) of the National Statistics Office (NSO)?

1. Prepares national accounts as well as publishes annual estimates of national product
2. Organizes and conducts periodic all-India Economic Censuses
3. Conducts the Annual Survey of Industries (ASI)

Select the correct answer using the code given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: D

Explanation: All statements are correct

National Statistics Office (NSO) is mandated with the following responsibilities:
— prepares national accounts as well as publishes annual estimates of national product, government and private consumption expenditure, capital formation, savings, estimates of capital stock and consumption of fixed capital

— compiles and releases the Index of Industrial Production (IIP) every month in the form of 'quick estimates'; conducts the Annual Survey of Industries (ASI); and provides statistical information to assess and evaluate the changes in the growth, composition and structure of the organized manufacturing sector;

— organizes and conducts periodic all-India Economic Censuses and follow-up enterprise surveys, provides an in-house facility to process the data collected through various socio-economic surveys and follow-up enterprise surveys of Economic Censuses.

The National Statistics Office (NSO) released today the first Advance Estimates (AE) of GDP for

10 PM Compilation for the Month of July, 2021

the year 2020-21. The real GDP at 2011-12 prices in 2020-21 has been estimated to contract by 7.7 per cent and nominal GDP at current prices by 4.2 per cent.

Q.12) The K-shaped economic forecast for economy sometimes seen in news implies?

- Global economy plunging into slowdown led by emerging economies (country)
- The statistical economic recovery on account of base effect
- Segments of economy recovering at different rates after a slowdown/recession
- The economic recovery on account of increased government spending

Correct Answer: C

Explanation: A K-shaped recovery is a post-recession scenario in which one segment of the economy begins to climb back upward while another segment continues to suffer. If illustrated, the economic growth would roughly resemble the two diverging diagonal lines of the letter “K” – hence the name. This is in contrast to an even, uniform recovery across sectors, industries, or groups of people. It is being predicted that economies across the world are experiencing a K-shaped recovery post lockdown due to COVID-19.

Q.13) Consider the following statements regarding Monetary Policy Committee (MPC):

- The Reserve Bank's Monetary Policy Department assists the MPC in formulating the monetary policy.
- Each member of the MPC has one vote, and in the event of an equality of votes, the Governor has a second or casting vote.

Which of the above statements is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

Correct Answer: C

Both statements are correct

Explanation

- Read [here](#)

Source: [Article](#)

Q.14) Consider the following statements regarding the Eight Core Industries:

- Combined weight of eight core industries is more than fifty percent in Index of Industrial Production (IIP)
- Electricity has highest weightage in the Index of Eight Core Industries (ICI).

Which of the statements given above is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

10 PM Compilation for the Month of July, 2021

Correct Answer: D

Explanation:

Both statements are incorrect.

- **Statement 1 is incorrect:** The Quick Estimates of Index of Industrial Production (IIP) are released by NSO on 12th of every month with a six weeks lag and compiled with data received from source agencies, which in turn receive the data from the producing factories/ establishments. Combined weight of eight core industries is 40.27 percent of IIP with base 2011-12.
- **Statement 2 is incorrect:** The monthly Index of Eight Core Industries (ICI) is a production volume index released by Office of the Economic Adviser (OEA). ICI measures collective and individual performance of production in selected eight core industries viz. Coal, Crude Oil.

Q.15) Which of the following outcomes lead to **Tax Terrorism**?

1. Complex tax structure
2. Ambiguity in Tax laws
3. Discretionary power of Tax officials

Select the correct option from the code given below

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: D

Explanation:

Tax Terrorism' essentially means the **undue exercise of power by tax authorities to levy taxes using legal or extra-legal means**. The Vodafone case is a classic example, when despite the Supreme Court order ruling in favour of the company, **tax laws were amended, retrospectively**.

Essentially, tax terrorism is an outcome of the existing tax framework.

1. **Complex tax structure** — Numerous taxes apply even on seemingly simple transactions. Such a web of taxes acts adversely to smooth flow of business.
2. **Ambiguity in laws** — This bends the law in favour of those who implement it. Vague definitions have led to disputes over the applicability of Minimum Alternate Tax, Capital gains tax, etc. in cases like the Vodafone and Cairn Energy Plc.
3. **High imbalance** — The IT Act allows CBDT to send notices just based on suspicion that one has under-reported his income or miscalculated taxes. Such discretion on the authorities, at times, is misused.

Read more: [Tax terrorism](#)

Source: [Business Standard](#)

Q.16) Which of the following prominent cases are related to **Retrospective Taxation**?

1. Cairn Energy Plc case
2. Vodafone India case
3. Devas Multimedia case

Select the correct option from the code given below

- a) 1 and 2 only

10 PM Compilation for the Month of July, 2021

- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: A

Explanation:

- **Retrospective taxation cases involving Cairn and Vodafone.** In both these cases, India has lost arbitration cases internationally, that too in unanimous verdicts.
- **Devas Multimedia**, which has won a case against Antrix Corporation (a subsidiary of the Indian Space Research Organisation) for **arbitrary cancellation of a contract**. As Devas subsequently argued in a US court, nine arbitrators and three international tribunals had deemed the termination of the Devas-Antrix deal as unlawful. The sums involved in each of these cases run to more than a billion dollars.

Source: [Business Standard](#)

Q.17) Consider the following statements regarding **Government Securities (G-secs)**

1. It is a tradable instrument issued by the Central Government or the State Governments.
2. State Governments can issue both, treasury bills and bonds or dated securities.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: Recently, The Reserve Bank of India(RBI) has announced the launch of the RBI Retail Direct scheme.

About RBI Retail Direct Scheme:

- **RBI Retail Direct Scheme** is a one-stop solution to facilitate investment in government securities (G-secs) by individual investors.
- **Under the scheme**, retail investors (individuals) will have the facility to open and maintain the 'Retail Direct Gilt Account' (RDG Account) with the RBI.

About G-Sec:

- **A Government Security(G-Sec)** is a tradable instrument issued by the Central Government or the State Governments. It acknowledges the Government's debt obligation.
- **Such securities** are short-term (usually called treasury bills, with original maturities of less than one year) or long-term (usually called Government bonds or dated securities with an original maturity of one year or more).
- **In India, the Central Government** issues both, treasury bills and bonds or dated securities. **While the State Governments** issue only bonds or dated securities which are called the State Development Loans (SDLs).

Read more: [G-secs: RBI unveils Retail Direct Scheme](#)

10 PM Compilation for the Month of July, 2021

Q.18) Consider the following statements regarding **Bharat Interface for Money-Unified Payments Interface (BHIM-UPI)**

1. It is interoperable with other Unified Payment Interface (UPI) applications, and bank accounts.
2. The BHIM-UPI is so far available only within Indian Territory

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: Recently The Union Minister of Finance of India along with her counterpart, the Finance Minister of Bhutan has jointly launched BHIM-UPI in Bhutan. This made Bhutan the second country after Singapore to have BHIM-UPI acceptance at merchant locations.

About BHIM-UPI:

- Bharat Interface for Money(BHIM) is Unified Payments Interface(UPI) based payment interface application that allows real time fund transfer
- The app has been launched in 2016.It was developed by the National Payments Corporation of India (NPCI).

Source: [PIB](#)

Q.19) Consider the following statements regarding Consumer Price Index (CPI) and Wholesale Price Index (WPI)

1. WPI tracks inflation at the producer level and CPI captures changes in prices levels at the consumer level.
2. CPI does not capture changes in the prices of services, which WPI does.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: Recently, the Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade has released the Wholesale Price Index (WPI) for the month of June, 2021.

Difference between CPI and WPI:

WPI tracks inflation at the producer level and CPI captures changes in prices levels at the consumer level.

WPI does not capture changes in the prices of services, which CPI does.

Read more: [Understanding WPI/CPI/PPI and more.](#)

10 PM Compilation for the Month of July, 2021

Q.20) Consider the following statements regarding the **dependency ratio** in population

1. It is the ratio of people not working/earning to the working/earning population.
2. A lower dependency ratio should ideally result in lower economic growth

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: The dependency ratio is the ratio of people not working/earning to the working/earning population.

For instance, A **dropping TFR** in India over the years has been **reducing the dependency ratio**, as there are fewer children below working age dependent on the working population.

So, A **lower dependency ratio should ideally result in higher economic growth**, as there is a large section of people consuming and saving.

On the other hand, improving living standards and medical advances over the past 40-50 years have prolonged life spans, thereby **skew the dependency ratio** at the other end of the age spectrum.

Source: [Live Mint](#)

Q.21) Which of the following is/are probable reasons for variation in India's forex reserves?

1. Movement in gold prices
2. Inflow of aid receipts
3. Interest earnings from foreign currency assets

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: D

Explanation:

All are reasons for variation in India's forex reserves

Reasons for Variation in Forex Reserves: Variation in India's forex reserves is primarily due to:

- RBI's intervention in the foreign exchange market to smoothen exchange rate volatility
- Valuation changes due to the movement of the US dollar against other international currencies in the reserve basket
- Movement in gold prices
- Interest earnings from the deployment of foreign currency assets and
- The inflow of aid receipts.

Source: [Article](#)

10 PM Compilation for the Month of July, 2021

Q.22) Consider the following statements regarding Integrated Ratings for State Power Distribution Utilities:

1. The rating exercise is carried out annually in all the states.
2. It covers State Power/ Energy Departments and private sector distribution utilities too.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: d

Explanation:

Both statements are incorrect

- **The Ministry of Power** had formulated an Integrated Rating exercise in 2012. It evaluates the performance of State Power Distribution utilities on a range of parameters covering operational, financial, regulatory and reform parameters.
- **The rating exercise** is carried out on an annual basis and presently covers 41 state distribution utilities spread across **22 states. (not all states)**
- **State Power/ Energy Departments** and private sector distribution utilities are however **not covered** under the integrated rating exercise
- **Nodal Agencies:** ICRA and CARE are the designated credit rating agencies that carry out this exercise.
- **Co-ordinations agency:** Power Finance Corporation (PFC) has been mandated to coordinate with the utilities, rating agencies & Ministry of Power (MoP) during the rating exercise.

Source: [Article](#)

Q.23) Consider the following statements regarding Social protection floor (SPF)

1. It is a basic set of social rights derived from human rights treaties, including access to essential services and social transfers
2. International Labour Organization so far did not recognise social protection floor

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- The United Nations mooted a **social protection floor (SPF) initiative** after the global financial crisis.
 - The social protection floor (SPF) is the first level of social protection in a national social protection system. It is a **basic set of social rights derived from human rights treaties, including access to essential services** (such as health, education, water and sanitation, etc) **and social transfers**, in cash or in-kind, **to guarantee income security, food security, adequate nutrition security.**

10 PM Compilation for the Month of July, 2021

- The report of the Advisory Committee of the ILO, in which India was also represented provides a strong rationale for **instituting a universal SPF during economic crises**.
- As a result, all constituents of the ILO adopted **Recommendation 202 on social protection floors at the International Labour Conference in 2012**.

Read more: [Migrant workers and their Social protection in India – Explained, pointwise](#)

Q.24) Which of the following factors can increase unemployment in India?

1. Low Labour mobility in India
2. Rush for government jobs
3. Increase in small scale industries

Which of the above statements is/are **correct**?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: A

Explanation:

Causes of unemployment in India:

- The decline of Small Scale and Cottage Industries
- Low Labour mobility in India
- Rush for government jobs (This will lead to a situation where many remain unemployed due to students preparing for government jobs.)
- Lack of skills and education

Read more: [Periodic Labour Force Survey and Unemployment in India](#)

Q.25) Periodic Labour Force Survey was seen in news recently. Which of the following organisation conducts the survey?

- a) National Statistical Office (NSO)
- b) National Sample Survey Organisation
- c) Ministry of Labour
- d) NITI Aayog

Correct Answer: A

Explanation: The government released the latest annual report of the **Periodic Labour Force Survey (PLFS)**. The data was for the 12 months (or four quarters) between July 2019 and June 2020. The PLFS report shows **unemployment rates are falling in a year when GDP growth hit a low**.

The PLFS is an annual survey conducted by the National Statistical Office (NSO). It was started in 2017, and it essentially maps the state of employment. In doing so, it collects data on variables such as the level of unemployment, the types of employment and their respective shares, etc.

Earlier, this job was done by Employment-Unemployment Surveys, but these were conducted once every five years.

Source: [The Indian Express](#)

10 PM Compilation for the Month of July, 2021

Q.26) Consider the following statements regarding Pre-Pack Insolvency Resolution Process (PIRP):

1. It involves a public-bidding process to ensure fairness of proceedings.
2. Debtors remain in control of their distressed firm during PIRP.
3. PIRP allows for a Swiss challenge to the resolution plan submitted by a corporate debtor.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 and 3 only
- c) 3 only
- d) 1, 2 and 3

Correct Answer: b

Explanation:

- **Statement 1 is incorrect:** A pre-pack is an agreement for the resolution of the debt of a distressed company through an agreement between secured creditors and investors, instead of a public bidding process.
- **Statement 2 is correct:** Unlike in the case of the corporate insolvency resolution process (CIRP), debtors remain in control of their distressed firm during the Pre-Pack Resolution Process (PIRP).
- **Statement 3 is correct:** The pre-pack insolvency resolution process (PIRP) also allows for a Swiss challenge to the resolution plan submitted by a CD, in case operational creditors are not paid 100% of their outstanding dues.

Source: [Indian Express](#)

Q.27) Malegam Committee Report was sometime seen in the news. Which of the following sector does the report caters to?

- a) Defence sector
- b) Microfinance
- c) Online Banking
- d) Digital Currency

Correct Answer: B

Explanation: The **Malegam Committee Report** of 2011 helped establish micro-finance as a legitimate asset class.

After 10 years then, the Reserve Bank of India (RBI) had released its Consultative Document on Regulation of Microfinance in June 2021.

About the committee:

The Reserve Bank of India formed a sub-committee in order to study the Microfinance sector regulated by the bank. The Sub-Committee was under the chairmanship of Y.H. Malegam.

The committee recommended certain conditions to be satisfied for NBFCs to be classified as [NBFC-MFI](#):

- Not less than 90% of NBFCs total assets (other than cash, money market instruments and bank balances) are in the nature of “qualifying assets.”
- The income NBFC derives from other services is in accordance with the regulation specified on that behalf.

Read more: [A framework for microfinance regulation that would suit India](#)

10 PM Compilation for the Month of July, 2021

Q.28) Consider the following statements regarding **Gharib Nawaz Employment Scheme**

1. The scheme provides short term job-oriented skill development courses to minorities' youth in order to enable them for skill-based employment.
2. The scheme was launched by the Ministry of Skill Development and Entrepreneurship

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: Recently, the Union Minister for Minority Affairs replied in the Parliament that a total number of 371 training centres under the Gharib Nawaz Employment Scheme were opened across the country.

Gharib Nawaz Employment Scheme:

It is a scheme to provide **short term job oriented skill development courses to minorities' youth** in order to enable them for **skill-based employment**. It was launched by the Ministry of Minority Affairs in 2017.

- **Implementing agency:** Maulana Azad Education Foundation, an autonomous body under the aegis of the Ministry of Minority Affairs, implements the scheme.

Source: [PIB](#)

10 PM Compilation for the Month of July, 2021

Geography and Agriculture

Q.1) Baihetan Dam was seen in news sometimes. In which of the following country the dam is located?

- a) Myanmar
- b) China
- c) India
- d) Spain

Correct Answer: B

Explanation:

Recently, China has put into operation the Baihetan Dam, world's Second Biggest Hydropower Dam. (Three Gorges Dam, opened in 2003 on the Yangtze, is the world's biggest hydroelectric dam.)

About the Baihetan Dam:

- The Baihetan Dam on the Jinsha River, a tributary of the Yangtze, is part of Chinese efforts to curb surging fossil fuel demand by building more hydropower capacity
- The 289-m-tall Baihetan Dam will have 16 generating units with a capacity of 1 million kilowatts each.
- It will eventually be able to generate enough electricity each day once to meet the power needs of 5,00,000 people for an entire year.

Source: [Livemint](#)

Q.2) Consider the following statements regarding **Rock Phosphate**

- a) It is the key raw material for DAP and NPK fertilisers
- b) India is self-sufficient in Rock Phosphate sources.

Select the correct answer using the codes given below:

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

Recently Department of Fertilisers has released an Action Plan for making India Aatmanirbhar in fertiliser production through indigenous resources.

About Rock Phosphate:

- Rock Phosphate is the key raw material for DAP and NPK fertilisers
- India is 90% dependent on imports so the volatility in international prices affects domestic prices of fertilisers and hinders the progress and development of agriculture sector in the country.
- India has almost 30 lakh MT of Phosphorite deposits. It is available in Rajasthan, central part of peninsular India, Hirapur(MP) ,Lalitpur(UP) , Mussoorie syncline , Cuddapah basin(AP).

Source: [PIB](#)

10 PM Compilation for the Month of July, 2021

Q.3) Consider the following statements regarding **Indus Waters**

1. Ujh river is the tributary of Sutlej River
2. India can use the water in western rivers (Indus, Jhelum, and Chenab) for non-consumptive needs.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct answer: B

Explanation:

Recently Jal Shakti minister said that, "India is working on exercising its rights to stop excess water flowing to Pakistan under the Indus Waters Treaty of 1960 to irrigate its own lands".

- India is working on a plan to divert the waters of Ujh, which is one of the main tributaries of the Ravi river that flows into Pakistan.

About Indus water treaty:

- The Indus Waters Treaty, 1960 is a water-distribution treaty between India and Pakistan.
- The Indus system comprises of Indus River, Jhelum, Chenab, Ravi, Beas and Sutlej. The basin is mainly shared by India and Pakistan with a small share for China and Afghanistan.
- Under the Indus treaty, all the waters of three eastern rivers namely Ravi, Sutlej and Beas were allocated to India for exclusive use.
- On the other hand, the waters of Western rivers namely Indus, Jhelum, and Chenab were allocated to Pakistan.
- But India can use the water in western rivers in non-consumptive needs. Here non-consumptive means we can use it for irrigation, storage and even for electricity production

Source: [Livemint](#)

Q.4) Last Ice Area was sometimes seen in the news. In which of the following area the place is located?

- a) Antarctic
- b) Arctic
- c) The Himalayas
- d) The Alps

Correct Answer: B

Explanation:

The 'Last Ice Area' (LIA), located in the Arctic's Ice north of Greenland, has started melting earlier than what the scientists had expected.

About the Last Ice Area:

- This region is located north of Greenland and Ellesmere Island in the Canadian territory of Nunavut.
- This area was believed to be strong enough to withstand global warming.
- The total disappearance of summer ice in the Arctic was estimated by the year 2040, however the 'Last Ice Area' was the exception.

10 PM Compilation for the Month of July, 2021

Importance:

- It was thought to be able to help ice-dependent species as ice in the surrounding areas melted away.
- It is used by polar bears to hunt for seals who use ice to build dens for their offspring. Walruses too, use the surface of the ice for foraging (to search for food).

Source: [The Indian Express](#)

Q.5) Consider the following statements regarding Heatwaves

1. Heatwave is a natural disaster under the National Disaster Management Act of 2005
2. National Disaster Management Authority declares heatwaves in India based on temperature.
3. Wet-bulb temperature is associated to heatwaves and human body.

Which of the statements given above is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: C

Explanation: In 2015 did the Indian government declare the heatwave a natural disaster under the National Disaster Management Act of 2005.

IMD declares a heatwave based on temperature. A heatwave is proclaimed when the highest temperature at a station surpasses 45°C; if it exceeds 47°C, it is referred to as a severe heatwave. Heatwaves in coastal and hilly locations are declared using similar criteria.

The human body **reacts to a combination of heat and humidity** known as the '**wet-bulb temperature**'. Only a few humans can tolerate a wet-bulb temperature exceeding 35°C because their bodies can no longer cool themselves.

- Many **regions of India now experience wet-bulb temperatures exceeding 32°C** during certain parts of the year. However, we are not declaring such days to be heatwaves, endangering the lives of people engaged in manual labour.

Source: [Times of India](#)

Q.6) Consider the following statements regarding Bhalia Wheat.

1. It is a type of short grain wheat cultivated in parts of Uttar Pradesh.
2. The unique characteristic of the Bhalia wheat is that it is grown in the rainfed condition without irrigation
3. The Bhalia variety of wheat received GI certification.

Select the correct answer from the codes given below:

- a) 1 only
- b) 2 and 3 only
- c) 3 only
- d) 1, 2 and 3

Correct Answer: B

Explanation:

The first shipment of Geographical Indication (GI) certified Bhalia variety of wheat was exported to Kenya and Sri Lanka from Gujarat.

About Bhalia Wheat:

10 PM Compilation for the Month of July, 2021

- **Bhalia Wheat** is also known as Daudkhani Wheat. It is a type of long grain wheat cultivated in Bhal region in the north of Gulf of Khambhat, Gujarat, India.
- **Characteristics:** The unique characteristic of the Bhalia wheat is that it is grown in the rainfed condition without irrigation and cultivated in around two lakh hectares of agricultural land in Gujarat.
- **GI Tag:** The Bhalia variety of wheat received GI certification in 2011. The registered proprietor of GI certification is Anand Agricultural University, Gujarat.
- **Nutritional Benefits:** Bhalia Wheat is rich in Gluten, a type of amino acid. It has high protein content and is sweet in taste.

Read more: [Exports of GI certified Bhalia wheat from Gujarat begins](#)

Q.7) Consider the following statements regarding **Agriculture Infrastructure Fund**.

1. The fund provides medium – long term debt financing facility for investment in viable projects.
2. It is a Central Sector Scheme launched by the Department of Agriculture Cooperation and Farmers Welfare (DAC&FW).

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation: The Union Cabinet has given its approval to the various modifications in Central Sector Scheme of Financing Facility under 'Agriculture Infrastructure Fund'.

Changes under the Fund:

- Eligibility has now been extended to State Agencies/APMCs, National & State Federations of Cooperatives, Federations of Farmers Producers Organizations (FPOs) and Federations of Self Help Groups (SHGs).
- The power has been delegated to Minister of Agriculture & Farmers Welfare to make necessary changes with regard to addition or deletion of beneficiary.
- The period of financial facility has been extended from 4 to 6 years upto 2025-26 and overall period of the scheme has been extended from 10 to 13 upto 2032-33.

About Agriculture Infrastructure Fund(AIF):

- It is a Central Sector Scheme launched by the Department of Agriculture Cooperation and Farmers Welfare(DAC&FW).
- **Aim:** To provide medium – long term debt financing facility for investment in viable projects. This includes post-harvest management Infrastructure and community farming assets through incentives and financial support.
- **Funding:** Under the scheme, banks and financial institutions will provide Rs. 1 Lakh Crore as loans to eligible beneficiaries.

Read more: [Agriculture Infrastructure Fund\(AIF\)](#) **Source:** [PIB](#)

Q.8) Caucasus Mountain system lying in which of the following countries?

1. Russia
2. Georgia
3. Turkey

10 PM Compilation for the Month of July, 2021

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: A

Relevance: Recently, India has gifted one part of the holy relics of 17th century St. Queen Ketevan to the Georgian government.

Caucasus Mountain system is lying between the Black Sea (west) and the Caspian Sea (east). It spread over Russia, Georgia, Azerbaijan, and Armenia.



Q.9) Consider the following statements regarding **Tropical Rainforests**

- 1. These are closed-canopy forests growing within 28 degrees north or south of the equator.
- 2. They are very wet places, receiving more than 200 cm rainfall per year, either seasonally or throughout the year.
- 3. They have uniformly high Temperatures between 20°C and 35°C.

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: D

Explanation: According to a recent study, Amazon Forests have started emitting Carbon dioxide (CO₂) instead of absorbing it.

About Amazon Forests:

- These are large tropical rainforests occupying the drainage basin of the Amazon River and its tributaries in northern South America.
- The Amazon rainforests cover about 80% of the Amazon basin and they are home to nearly a fifth of the world's land species and is also home to about 30 million people including hundreds of indigenous groups and several isolated tribes.

10 PM Compilation for the Month of July, 2021

About Tropical forests:

- Tropical forests are closed-canopy forests growing within 28 degrees north or south of the equator.
- They are very wet places, receiving more than 200 cm rainfall per year, either seasonally or throughout the year.
- Temperatures are uniformly high - between 20°C and 35°C.
- Such forests are found in Asia, Australia, Africa, South America, Central America, Mexico and on many of the Pacific Islands.

Source: [The Indian Express](#)

Q.10) Consider the following statements regarding **Virtual Water Trade**

1. The virtual water trade is the idea that when goods and services are exchanged, so is virtual water.
2. Countries export water-intensive crops and products and import less water-intensive commodities to increase their water availability

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: The virtual water trade is the idea that when goods and services are exchanged, so is virtual water. When a country imports one tonne of wheat instead of producing it domestically, it is saving about 1,300 cubic meters of real indigenous water.

For instance, water-guzzling activities are getting outsourced for production to other countries. Thus, crops, meat, leather, chemicals, and industrial goods are imported to ensure a positive water balance. For example, Mexico imports maize and in doing so, it saves 12 billion cubic meters per year of its national water resources.

Countries export less water-intensive crops and products and export less water-intensive commodities to increase their water availability

Source: [Relation between Agri exports and water stress – Explained, Pointwise](#)

Q.11) Consider the following statements regarding the potential **application of copper**

1. Copper is an excellent conductor of thermal and electrical energy
2. Copper can be recycled completely many times over without any loss in performance.
3. Copper cannot be used in renewable energy systems to generate power

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: A

Explanation:

- Copper is an **excellent conductor of thermal and electrical energy**; the power systems that utilise copper generate and transmit energy with high efficiency and with

10 PM Compilation for the Month of July, 2021

minimum environmental impacts. The use of copper in energy systems helps reduce carbon dioxide emissions.

- It can also be **recycled completely many times over without any loss in performance**.
- Copper is a highly efficient mineral used in renewable energy systems to generate power from solar, hydroelectric, thermal and wind energy.

Source: [Down To Earth](#)

Q.12) Consider the following statements regarding **Polymetallic nodules**

1. These are rocks that are rich in cobalt, copper, manganese, nickel
2. Polymetallic nodules do not contain rare earth minerals

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- These are rocks that are rich in cobalt, copper, manganese, nickel, rare-earth elements and titanium.
- The Pacific basin is thought to contain more than 30 billion tonnes of polymetallic nodules
- Scientists and entrepreneurs have been researching methods of extracting them since the 1960s.
- In 1994, the International Seabed Authority was established to regulate mining efforts and protect the seabed environment.

Read more: [Digging up the ocean floor for metals could prove disastrous](#)

Q.13) Which of the following is/are the tributaries of Godavari River?

1. Manjra
2. Bhima
3. Musi

Select the correct answer from the codes given below:

- a) 1 only
- b) 1 and 3 only
- c) 2 only
- d) 1, 2 and 3

Correct Answer: A

Explanation:

- **Tributaries of Godavari:** Pravara, Purna, **Manjra**, Penganga, Wardha, Wainganga, Pranhita (combined flow of Wainganga, Penganga, Wardha), Indravati, Maner and the Sabri.
- **Tributaries of Krishna:** The principal tributaries joining Krishna are the Ghataprabha, the Malaprabha, the Bhima, the Tungabhadra and the Musi.

Source: [Business Standard](#)

10 PM Compilation for the Month of July, 2021

Q.14) Consider the following statements regarding **Gold Ore Reserves**

1. The largest reserves of gold ores in India is located in Bihar
2. Globally the largest reserves of gold ores located in South Africa

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

Recently, the Union Minister of Mines has informed Rajya Sabha about the Gold Ore Reserves present in India.

About Gold reserves in India:

- **According to** National Mineral Inventory data, India has 501.83 million tonnes of gold ore reserves as of April 1, 2015.
- **Out of these**, 22 million tonnes were placed under reserves category and the rest under remaining resources category.
- **The largest reserves of gold ores** are located in Bihar (44%), followed by Rajasthan (25%), Karnataka (21%), West Bengal (3%), Andhra Pradesh (3%) and Jharkhand (2%).
- **The remaining 2% reserves** are in Chhattisgarh, Madhya Pradesh, Kerala, Maharashtra and Tamil Nadu.

Global Reserves:

- U.S has the highest gold reserves with 8,133.5 tonnes of total gold reserves, followed by Germany with 3,366.8 tonnes

Read More: [India has 500 million tonnes of gold ore reserves: Govt](#)

Q.15) Which of the following conditions is/are favorable for the formation & intensification of Tropical Cyclones?

1. Upper divergence above the sea level system
2. Consistent source of heat
3. High-level cyclonic circulation

Select the correct answer from the codes given below:

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: A

Explanation:

The conditions favorable for the formation and intensification of tropical storms are:

- **A consistent source of heat** as tropical cyclones are thermally induced low-pressure systems.
- **Large sea surface** with a temperature higher than 27° C which is possible only during the late summers i.e. September, October, and November
- Presence of the **Coriolis force**.
- Small variations in the **vertical wind speed**.

10 PM Compilation for the Month of July, 2021

- A pre-existing weak low-pressure area or low-level-cyclonic circulation;
- Upper divergence above the sea level system.

Source: [Article](#)

Q.16) Consider the following statements regarding **Phosphorus rocks or phosphate rocks**

1. Phosphate rocks are majorly produced from Jharkhand and Odisha in India
2. More than 85% of the phosphate rock mined is used to manufacture phosphate fertilizers.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation: Recently Union Minister of Chemicals and Fertilizers informed Parliament that India will explore indigenous deposits of phosphatic rock, a step towards becoming Aatma Nirbhar in fertilizer production.

About Phosphate rock:

- Phosphorus rocks or phosphate rocks are unprocessed ores.
- Phosphate rock deposits can be sedimentary (formed from sediment deposited by water or air) or igneous (having solidified from lava or magma).
- Worldwide, more than 85% of the phosphate rock mined is used to manufacture phosphate fertilizers.

Phosphorus in India

- Phosphate rocks are majorly produced only from two States in India, namely Rajasthan and Madhya Pradesh.
- Currently, there exists 30 lakh MT of phosphorite deposits in the country
- These deposits are available in Rajasthan, central part of peninsular India, Hirapur (Madhya Pradesh), Lalitpur (Uttar Pradesh), Mussoorie syncline, and Cuddapah basin (Andhra Pradesh).

Source: [All India Radio](#)

10 PM Compilation for the Month of July, 2021

Statutory, Regulatory and various Quasi-judicial Bodies

Q.1) Consider the following statements regarding Export Credit Guarantee Corporation (ECGC):

1. It works under the administrative control of Ministry of Commerce
2. It protects exporters from consequences of the payment risks, both political and commercial

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Both statements are correct

- ECGC Ltd. (Formerly Export Credit Guarantee Corporation of India Ltd.), wholly owned by Government of India, was set up in 1957 with the objective of promoting exports from the country by providing Credit Risk Insurance and related services for exports. It functions under the administrative control of **Ministry of Commerce & Industry**, and is managed by a Board of Directors comprising representatives of the Government, Reserve Bank of India, banking, and insurance and exporting community.
- The commercial risks of a foreign buyer going bankrupt or losing his capacity to pay are aggravated due to the political and economic uncertainties. Export credit insurance is designed to protect exporters from the consequences of the payment risks, both **political and commercial**, and to enable them to expand their overseas business without fear of loss

Source: [Article](#)

Q.2) Consider the following statements regarding Science and Engineering Board (SERB):

1. It is a statutory body.
2. Prime Minister is the ex-officio chairman of SERB.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation:

- **SERB** is a statutory body established in 2009. It functions under the Department of Science and Technology, Ministry of Science and Technology.
- **Functions:** It was set up for promoting basic research in science and engineering. It also provides financial assistance to scientists, academic institutions, Research and Development laboratories, industrial concerns, and other agencies for such research.
- **Chaired by:** It is chaired by the Secretary to the Government of India in the Department of Science and Technology. Further, it has other senior government officials and eminent scientists as members.

Source: [Article](#)

10 PM Compilation for the Month of July, 2021

Q.3) Consider the following statements regarding National board for Wildlife (NBWL):

1. It is chaired by the Prime Minister.
2. No alteration of boundaries in national parks and wildlife sanctuaries can be done without the approval of the NBWL.

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: d

Explanation:

Both statements are correct

- **NBWL** is a statutory body constituted under the Wildlife Protection Act, 1972.
- **Chairman:** Prime minister.
- **Vice-Chairperson:** Minister of Environment, Forests & Climate Change.
- **Functions:** Its role is advisory in nature and advises the Central Government on framing policies and measures for the conservation of wildlife in the country.
- **The board has the power** to review all wildlife-related matters and approve projects in and around national parks and sanctuaries.
- **No alteration of boundaries** in national parks and wildlife sanctuaries can be done without the approval of the NBWL.

Source: [Article](#)

Q.4) Consider the following regarding Bar Council of India:

1. It is a statutory body.
2. It sets standards for legal education in India

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: C

Explanation: Both statements are correct.

The Bar Council of India is a **statutory body** created by Parliament under the **Advocates Act, 1961** to regulate and represent the Indian bar. It performs the regulatory function by prescribing standards of professional conduct and etiquette and by exercising disciplinary jurisdiction over the bar.

Functions: It sets standards for legal education and grants recognition to Universities whose degree in law will serve as qualification for enrollment as an advocate.

Source: [Article](#)

Q.5) Consider the following statements regarding C-TAP:

1. It was launched by WHO, in partnership with the Government of India.
2. It is being utilized for sharing intellectual property, technology and data to increase access to medical products related to COVID 19

10 PM Compilation for the Month of July, 2021

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation:

- **Statement 1 is incorrect:** COVID-Technology Access Pool (C-TAP) was launched by WHO, in partnership with the Government of Costa Rica, under a global Solidarity Call to Action endorsed by nearly 40 Member States.
- **Statement 2 is correct**

Source: [Article](#)

Q.6) Consider the following statements regarding Central Pollution Control Board (CPCB):

1. It has been established under the Air (Prevention and Control of Pollution) Act, 1981.
2. It provides technical services to the Ministry of Environment and Forests under the provisions of the Environment (Protection) Act, 1986.

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanations:

- **Statement 1 is incorrect:** CPCB has been constituted in 1974 under the Water (Prevention and Control of Pollution) Act, 1974.
- **Statement 2 is correct**

Source: [Article](#)

Q.7) Consider the following statements regarding Khadi Village Industries Commission (KVIC):

1. It is a statutory body.
2. It is an apex organization under the Ministry of Commerce and Industry

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: Statement 2 is incorrect

- **The Khadi and Village Industries Commission (KVIC)** is a statutory body formed in 1957 under Khadi and Village Industries Commission Act, 1956.
- **Nodal Ministry:** It is an apex organisation under the Ministry of Micro, Small, and Medium Enterprises.

10 PM Compilation for the Month of July, 2021

- **Mandate:** The KVIC is charged with the planning, promotion, organisation and implementation of programs for the development of Khadi and other village industries in the rural areas in coordination with other agencies

Q.8) Consider the following statements regarding National Archives of India (NAI):

1. It is a statutory body.
2. It is the nodal agency for the implementation of the Public Records Act.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation: Statement 1 is incorrect: It functions as an Attached Office of the Department of Culture under the Ministry of Culture.

- **Established in:** It was originally established as the Imperial Record Department in 1891 in Calcutta (Kolkata). This department was transferred to New Delhi in 1911. Later, it was shifted into the present building in 1926.
- **Purpose:** NAI is a custodian of the non-current records of the enduring value of the Indian Government. It holds them in trust for the use of administrators and scholars.

Statement 2 is correct: Rules: NAI is the nodal agency for the implementation of the Public Records Act, 1993 and Public Record Rules, 1997.

Source: [Article](#)

Q.9) Consider the following statements regarding Bureau of Energy Efficiency (BEE):

1. It is a statutory body.
2. Its primary objective of reducing energy intensity of the Indian economy.

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: d

Explanation: Both statements are correct

- **Bureau of Energy Efficiency (BEE):** It is a statutory body established in 2002 under the provisions of the Energy Conservation Act, 2001 under the Ministry of Power, Government of India.
- **Objective:** To assist in developing policies and strategies with a thrust on self-regulation and market principles within the overall framework of the Energy Conservation Act, 2001 with the primary objective of reducing energy intensity of the Indian economy.
- **Role of BEE:** BEE coordinates with designated consumers, designated agencies and other organizations and recognizes, identifies and utilizes the existing resources and infrastructure, in performing the functions assigned to it under the Energy Conservation Act.

Source: [Article](#)

10 PM Compilation for the Month of July, 2021

Agriculture - AGRICULTURAL LEGISLATIONS AND VARIOUS INITIATIVES

Q.1) Consider the following statements regarding Krishi Vigyan Kendra (KVK):

1. They are agricultural extension centres created by ICAR and its affiliated institutions at district level.
2. The KVK scheme is 100% financed by the Government of India.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: c

Explanation:

Both statements are correct

- Krsihi Vigyan Kendra (KVK) are agricultural extension centres created by ICAR (Indian Council for Agricultural Research) and its affiliated institutions at district level.
- The mandate of KVK is technology assessment, refinement and demonstration by providing critical inputs to the farmers which enable them to sustain their productivity.
- The KVK scheme is 100% financed by the Government of India. The first KVK was established during 1974 (Pondicherry) and currently around 645 KVKs have been established.

Source: [Article](#)

Q.2) Consider the following statements regarding Sahi Fasal Campaign.

1. It nudges farmers to favor agricultural crops which consume less water
2. The campaign will be launched by Ministry of Agriculture

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: A

Explanation: The campaign was launched by the National Water Mission. It nudges farmers to favor agricultural crops which consume less water and to use water more efficiently in agriculture as a part of demand side management

Read more: [District facing Water Crisis](#)

Q.3) Consider the following statements regarding Nano Urea Liquid

1. Nano Urea Liquid was first developed by Council of Scientific and Industrial Research (CSIR)
2. India is the first country globally to start commercial production of Nano Urea

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2

10 PM Compilation for the Month of July, 2021

d) Neither 1 nor 2

Correct Answer: B

Explanation: Recently, National Fertilisers Limited (NFL) and Rashtriya Chemicals and Fertilisers Ltd (RCF) signed Memorandum of Understanding (MoU) with Indian Farmers Fertiliser Cooperative Limited (IFFCO) for 'transfer of technology' of a revolutionary and game changer fertiliser Nano Urea Liquid.

- Nano Urea Liquid is a nutrient to provide nitrogen to plants as an alternative to conventional urea.
- Developed by: Nano Urea Liquid has been developed indigenously through proprietary technology at IFFCO's Nano Biotechnology Research Centre(NBRC) in Gujarat.
- India has become the first country globally to start commercial production of Nano Urea

Source: [PIB](#)

Q.4) Consider the following statements regarding **Project Bamboo Oasis on Lands in Drought (BOLD)**

1. It seeks to create bamboo-based green patches in arid and semi-arid land zones of the country
2. It is the initiative of National Bamboo Mission

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: B

Explanation: Recently, In the first of its kind efforts to develop green cover in the Indian deserts of Rajasthan, Khadi and Village Industries Commission (KVIC) on Tuesday planted 1000 bamboo saplings at Tanot village in Jaisalmer, in collaboration with the Border Security Force (BSF).

- Khadi and Village Industries Commission(KVIC) has launched a project named Bamboo Oasis on Lands in Drought(BOLD)
- **Project BOLD** seeks to create bamboo-based green patches in arid and semi-arid land zones of the country. It aims at reducing land degradation and preventing desertification in the country.
- **As part of the project**, 5000 saplings of bamboo species – Bambusa Tulda and Bambusa Polymorpha specially brought from Assam – have been planted over 16 acres of vacant arid Gram Panchayat land in Rajasthan.

Source: [PIB](#)

Q.5) Consider the following statements regarding **Raja Mircha**

1. This chilli belongs to the genus Capsicum
2. It is a Geographical Indication(GI) certified chilli from Nagaland

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2

10 PM Compilation for the Month of July, 2021

d) Neither 1 nor 2

Correct Answer: C

Explanation: The consignment of 'Raja Mircha' also referred as king chilli from Nagaland was exported to London via Guwahati by air for the first time.

About Raja Mircha:

- **Raja Mircha** is a chilli from Nagaland. It is also referred to as king chilli or Bhoot Jolokia and Ghost pepper.
- **Genus:** This chilli belongs to the genus Capsicum of the family Solanaceae.
- **GI Tag:** It got the Geographical Indication(GI) certification in 2008.
- **Significance:** It has been considered as the world's hottest chilli and is constantly on the top five in the list of the world's hottest chilies based on the Scoville Heat Units (SHUs).

Read more: [King Chilli 'Raja Mircha' from Nagaland exported to London for the first time](#)

10 PM Compilation for the Month of July, 2021

Ancient and Medieval history

Q.1) Consider the following statements regarding **Ramappa Temple**

1. The temple was constructed during the reign of the Kakatiya Empire
2. The presiding deity of the temple is Lord Vishnu
3. The temple is known as the Ramappa temple after the sculptor who executed the work in the temple

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Correct Answer: C

Explanation: The United Nations Educational, Scientific and Cultural Organization (UNESCO) has inscribed the Ramappa Temple as a UNESCO 'World Heritage Site'.

About Ramappa Temple:

- **Ramappa (Rudreswara) Temple** is also known as the Ramalingeswara (Lord Siva) temple.
- **Location:** The temple is located in the Palampet village of Venkatapur Mandal in Telangana's Mulugu (old Warangal) district.
- **Built by:** The temple was constructed in 1213 AD during the reign of the Kakatiya Empire by Recherla Rudra, a general of Kakatiya king Ganapati Deva.
- **Presiding Deity:** The presiding deity of the temple is Ramalingeswara Swamy. The temple is known as the Ramappa temple after the sculptor who executed the work in the temple for 40 years.

Read more: [Telangana's Ramappa temple inscribed as UNESCO World Heritage Site](#)

Q.2) Consider the following statements

1. The site was discovered by Jagat Pati Joshi
2. It is the first site of the ancient Indus Valley Civilisation (IVC) in India to get the World Heritage tag.
3. Harappan antecedent towns normally located near to rivers but the location of this town was in the island

Which of the following place is described in the statements above?

- a) Lothal
- b) Kalibangan
- c) Dholavira
- d) Rakhigarhi

Correct Answer: C

Explanation: The Harappan city of Dholavira, in present-day Gujarat, has been named the 40th Indian site on UNESCO's World Heritage list

About Dholavira:

- **Dholavira** is an archaeological site of a Harappan-era city. It is located in the Kutch district, Gujarat.

10 PM Compilation for the Month of July, 2021

- **The site is one of the very few** well-preserved urban settlements in South Asia, dating from the 3rd to mid-2nd millennium BCE.
- **The site is the 6th largest** of more than 1,000 Harappan sites discovered so far.
- **The site was discovered** in 1968 by archaeologist Jagat Pati Joshi.
- **The site** was a commercial and manufacturing hub for about 1,500 years before its decline and eventual ruin in 1500 BC.
- **The site is an exceptional example** of a proto-historic Bronze Age urban settlement pertaining to the Harappan Civilization (early, mature, and late Harappan phases).
- **Dholavira was located** on the island of Khadir when compared to other Harappan towns normally located near rivers and perennial sources of water.

Read more: [Dholavira in Gujarat on UNESCO World Heritage list](#)

Q.3) Consider the following statements regarding **Chola Dynasty. Which of the above statement is true?**

- a) Rajaraja Chola was the first to venture to the banks of the Ganges.
- b) Kailasanatha Temple, a UNESCO World Heritage Site was built by the Cholas
- c) Rajendra I conducted a naval expedition to Kadaram or Sri Vijaya (Malay peninsula, Sumatra, Java and the neighbouring islands)
- d) The Chola Empire was founded by Aditya Chola

Which of the above statement is true?

Correct Answer: C

Explanation: Recently The National Gallery of Australia (NGA) has announced that it would return 14 works of art from its Asian art collection to India. The art collection includes the dancing child-saint Sambandar of the 12th century, belonging to the Chola dynasty.

- Rajendra I was the first to venture to the banks of the Ganges.
- Kailasanatha Temple, a UNESCO World Heritage Site was built by the Pallavas
- Rajendra I conducted a naval expedition to Kadaram or Sri Vijaya (Malay peninsula, Sumatra, Java and the neighbouring islands)
- The Chola Empire was founded by Vijayala Chola

Read more: [National Gallery of Australia returns 14 artworks including Chola idols](#)