

## *10 PM Current Affairs Quiz Compilation*

**August, 2022**

**PRELIMS**

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**Q.1) Which of the following constitutional amendments promoted 'Democratic decentralisation' in India?**

- 1) 73rd and 74th Amendments
- 2) 42<sup>nd</sup> amendment
- 3) 4<sup>th</sup> Constitutional amendment

**Select the correct answer using the codes given below:**

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

**Ans) c**

**Explanations)**

Option 1 is correct. India's centralised federal Constitution adopted in 1950 had no real space for local governments until the passing of the 73rd and 74th Amendments.

Option 2 is incorrect. It reduced the subjects in the state list by transferring five subjects from the state list to the concurrent list:

1. Education
2. Forests
3. Weights & Measures
4. Protection of Wild Animals and Birds
5. Administration of Justice

Option 3 is correct. 4<sup>th</sup> Constitutional amendment act authorised the states to have full control over mineral and oil resources. The powers of cancellation or modification of the terms and conditions of any related licenses, mining leases and similar agreements were also handed over.

**Q.2) With regard to fighter Aircrafts capability of a nation, what do you understand by the term "Hi-Lo mix"?**

- a) It is a mix of Aircrafts that can fly at high altitude and the ones that can fly at low altitudes.
- b) It is a mix of Aircrafts that can carry atomic weapons and the ones that can carry only non-atomic weapons
- c) It is a mix of Aircrafts that are more expensive plus high-tech and the ones that are cheaper and simple.
- d) It is a mix of aircrafts that can cover a longer distance and the ones that can cover smaller distances.

**Ans) c**

**Explanations)**

The High/Low concept means a mix of larger, more expensive and more capable aircraft and smaller, cheaper and simpler ones. For example, US has the F-22/F-16, the Chinese have developed the J-20/ J-10 and Pakistan is working on the J-10/JF-17 mix.

**Q.3) Which of the following is the correct application of Artificial Intelligence in agriculture?**

- 1) Correct predictions of weather, temperature, water consumption
- 2) Detection of crop diseases
- 3) Consolidation of landholdings

**Select the correct answer using the codes given below:**

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

**Ans) a**

**Explanations)**

Option 1 is correct. AI is vital for **prediction analysis**. For example, it can enable farmers to extract and analyse information such as weather, temperature, water consumption or soil conditions through data collected directly from their fields.

Options 2 is correct. The use of image recognition using AI approaches for plant identification, pest infestation and disease diagnosis is also becoming prevalent.

Option 3 is incorrect. The fragmentation of land could also prove to be a hurdle for **large-scale implementation** of new technologies.

**Q.4) Which of the following statements best describes the term ‘digital humanities’?**

- a) Learning humanities subjects online through innovative and new methodologies.
- b) It refers to the internet users who research online to find out new facts and findings about the unknown areas of humanities like history, art and culture.
- c) This is a new area introduced in the humanities, which studies the applications of science and technology in history.
- d) Application of mathematical models to understand new aspects of huge digital historical archives and collections.

**Ans) d**

**Explanations)**

Digital humanists have developed new methods, such as computer-based statistical analysis, search and retrieval, topic modelling, and data visualisation. They apply these techniques to archives and collections that are vastly larger than any human researcher or research group can comfortably handle. Thus, Digital humanities, also known as “humanities computing,” uses digital methods to delve deeper into humanities subjects like history, literature or arts.

**Q.5) Which of the following statements is/are correct regarding the 'International North-South Transport Corridor'?**

- 1) It is a multi-modal transport corridor.
- 2) It can help India in bypassing Pakistan to access Afghanistan and central Asia.
- 3) It will increase India's journey time by around 5% compared to the conventional deep-sea route via the Suez Canal.

**Select the correct answer using the codes given below:**

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

**Ans) a**

**Explanations)**

Statement 1 is correct. INSTC is a 7,200-km multi-modal transport corridor that combines road, rail and maritime routes connecting Russia and India via central Asia and Iran.

Statement 2 is correct. INSTC includes Iran. Thus India can now bypass Pakistan to access Afghanistan, central Asia and beyond.

Statement 3 is incorrect. The INSTC is expected to reduce freight costs by 30% and journey time by 40% in comparison with the conventional deep sea route via the Suez Canal.

**Q.6) Exercise Eastern Bridge is a bilateral Air Force exercise between India and which of the following country?**

- a) Iran
- b) Oman
- c) Saudi Arabia
- d) Israel

**Answer: B**

The 4th Edition of India Oman Joint Military Exercise 'AL NAJAH-IV' is scheduled to take place at the Foreign Training Node of Mahajan Field Firing Ranges (Rajasthan).

**Other exercises between India and Oman:**

**Exercise Naseem-Al-Bahr(sea breeze):** It is a naval exercise between the Indian Navy and Oman.

**Exercise Eastern Bridge:** It is an Air Force exercise held between India and Oman.

Source: [PIB](#)

**Q.7) With reference to Resolution on Right to a clean and healthy environment, consider the following statements;**

1. It is a non-binding resolution that recognizes the right to a clean, healthy and sustainable environment as a human right.
2. The Right to a clean and healthy environment is included in the Universal Declaration of Human Rights.

**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

**Answer: A**

**Statement 1 is correct:** It is a non-binding resolution that recognizes the right to a clean, healthy and sustainable environment as a human right.

**Statement 2 is incorrect:** The Right to a clean and healthy environment is not included in the Universal Declaration of Human Rights, 1948. So, this is a historic resolution that will change the very nature of international human rights law.

Source: [DTE](#)

**Q.8) Which of the following basic precepts of justice and fairness is/are inherent in India's criminal justice system?**

1. A person is presumed innocent until proven guilty.
2. A person detained on suspicion of having committed an offence would be entitled to bail pending trial.
3. Civil law ought not to be retroactive.

**Select the correct answer using the codes given below;**

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

**Answer: C**

Some basic precepts of justice and fairness are inherent to India's criminal justice system. These precepts include, **a)** A person is presumed innocent until proven guilty, **b)** A person detained on suspicion of having committed an offence would be entitled to bail pending trial, **c)** A criminal law ought not to be retroactive, **d)** A person accused of an offence must be informed of the charges made against him; and **e)** A suspect has a privilege against incriminating herself.

Source: [The Hindu](#)

**Q.9) With reference to public stock holding (PSH) food grains, consider the following statements;**

1. WTO prohibits countries from exporting foodgrain procured at subsidised prices.
2. The 'peace clause' provides permanent relief to developing countries as it bars countries from raising legal challenges against public stock holding subsidies.

**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

**Answer: A**

**Statement 1 is correct:** WTO prohibits countries from exporting foodgrain procured at subsidised prices. This is because, **a)** Gives an unfair advantage in global agricultural trade, **b)** A country will sell foodgrain in the international market at a very low price. This will depress the global prices and have an adverse impact on the agricultural trade of other countries.

**Statement 2 is incorrect:** India's PSH policy is based on procuring food from farmers at an administered price (minimum support price or MSP - generally higher than the market price). However, under WTO law, such price support-based procurement from farmers is considered as a trade-distorting subsidy. Currently, India has temporary relief due to a 'peace clause' that bars countries from raising legal challenges against these subsidies.

Source: [The Hindu](#)

**Q.10) With reference to International North-South Transport Corridor (INSTC), consider the following statements;**

1. It is a multi-modal transport corridor that combines road and maritime route alone.
2. The legal framework for the INSTC is provided by a trilateral agreement signed by India, Iran and Russia at the Euro-Asian Conference on Transport.

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

**Answer: B**

**Statement 1 is incorrect:** It is a 7,200-km multi-modal transport corridor that combines road, rail and maritime routes connecting Russia and India via Central Asia and Iran. The corridor is expected to consolidate the emerging Eurasian Free Trade Area.

**Statement 2 is correct:** The legal framework for the INSTC is provided by a trilateral agreement signed by India, Iran and Russia at the Euro-Asian Conference on Transport in 2000.

Source: [The Hindu](#)

**PRELIMS**

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**Q.1) Patient-Provider Support Agency (PPSA) model, recently seen in news, is linked to control which of the following diseases?**

- a) Tuberculosis
- b) Cancer
- c) Dengue and Malaria
- d) Anemia

**Ans) a**

**Explanation)**

Patient Provider Support Agency (PPSA) project. It focuses on implementing TB prevention and treatment interventions with extensive government support thereby marking an important milestone in the health sector for scaled-up, sustainable programming.

[Base Article](#)

**Q.2) Despite having large reserves in India, Coal availability is still dependent on imports, which of the following are the factors that increase Coal Imports?**

- 1) Production has not increased since nationalization
- 2) Coal available in India is not suitable for metallurgical industry.
- 3) Cash starved Power Distribution companies (Discoms)

**Select the correct answer from the codes given below**

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

**Ans) c**

**Statement 1 is incorrect.** Coal India has increased its production but it has not been able to keep pace with rising demand. And private sector coal mines are still marginal to India's demand supply equation.

Statement 2 is correct. The bulk of India's reserves — over 282 billion tonnes — consists of the relatively low calorific value thermal or non-coking coal that powers most of the thermal power plants. The country has fewer reserves of the higher quality coking coal used most commonly in the metallurgical industry.

Statement 3 is correct. Many state discoms owe enormous amounts to power generating companies. This in turn has hampered the ability of power producers to pay CIL on time.

**Q.3) Consider the following statements regarding coal liquefaction**

- 1) Gasification of coal produces syngas.
- 2) Coal liquefaction does not emit Carbon Dioxide (CO<sub>2</sub>).

**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

**Ans) a**

**Statement 1 is correct.** It involves gasification of coal, which in turn will produce synthetic gas (a mix of CO+H<sub>2</sub>). The synthetic gas can be liquefied to its fuel equivalent in presence of cobalt/iron-based catalysts at higher pressure and temperature.

Statement 2 is incorrect. liquefied coal emits twice as much CO<sub>2</sub> as burning oil. It also emits a large volume of SO<sub>2</sub>.

**Q.4) This program is being implemented for development and conservation of indigenous bovine breeds for enhancing milk production and productivity of bovines. The scheme is also continued under umbrella scheme Rashtriya Pashudhan Vikas Yojna from 2021 to 2026**

Which one of the following scheme has been described in the paragraph above?

- a) Livestock Health and Disease Control scheme
- b) Dairy processing & Infrastructure Development Fund (DIDF)
- c) National Programme for Dairy Development (NPDD)
- d) Rashtriya Gokul Mission (RGM)

**Ans) d**

The Rashtriya Gokul Mission (RGM) is being implemented for development and conservation of indigenous bovine breeds since December 2014. The scheme is important in enhancing milk production and productivity of bovines to meet growing demand of milk and making dairying more remunerative to the rural farmers of the country. The scheme is also continued under umbrella scheme Rashtriya Pashudhan Vikas Yojna from 2021 to 2026 with a budget outlay of Rs.2400 crore. The RGM will result in enhanced productivity and benefit of the programme, percolating to all cattle and buffaloes of India especially with small and marginal farmers. This programme will also benefit women in particular since over 70% of the work involved in livestock farming is undertaken by women.

**Q.5) Kalashala initiative which was seen in news is related to which of the following?**

- a) To promote art and culture through displaying stalls in attractive places in cities.
- b) To promote bhartiya games like 'gilli danda', 'kabaddi' in schools.
- c) To educate children about the various art forms of India and help them discover the country's rich cultural heritage.
- d) To educate foreign students in India about the India's cultural heritage.

**Answer: C**



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It will be launched in 750 schools. It envisions educating children about the various art forms of India & help them discover the country's rich cultural heritage. The school students will learn about various art forms through lecture demonstrations by a visiting artist.

Source: [Hindustan Times](#)

**Q.7) With reference to uncontrolled re-entry of space shuttles, consider the following statements;**

1. A launching State is absolutely liable to pay compensation for damage caused by its space objects on the surface of the earth or to aircraft.
2. There is a specific law for space junk crashing back to earth.

**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

**Answer: A**

**Statement 1 is correct:** The Space Liability Convention of 1972 defines responsibility in case a space object causes harm.

The treaty says that a launching State shall be absolutely liable to pay compensation for damage caused by its space objects on the surface of the earth or to aircraft, and liable for damage due to its faults in space.

**Statement 2 is incorrect:** The convention also provides for procedures for the settlement of claims for damages. However, there is no law against space junk crashing back to earth.

Source: [Indian Express](#)

**Q.8) With reference to Monkeypox, consider the following statements;**

1. It is caused by a single-stranded RNA virus. Thus, makes unstable and prone to rapid mutations.
2. The Congo Basin clade has historically caused more severe disease and was thought to be more transmissible than the West African clade.

**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

**Answer: B**

**Statement 1 is incorrect:** Monkeypox belongs to the orthopoxvirus, which is a genus of viruses that also includes the variola virus which causes smallpox.

It is an enveloped double-stranded DNA virus, unlike the RNA virus. This makes it far more stable and less prone to rapid mutations.

**Statement 2 is correct:** There are two distinct genetic clades of the monkeypox virus: the central African (Congo Basin) clade and the West African clade. The Congo Basin clade has historically caused more severe disease and was thought to be more transmissible.

Source: [The Hindu](#)

**Q.9) Which of the following advantage/s of using Rupees for international transactions?**

1. India can avoid transactions in the highly-priced other country currencies.
2. Increase inflation and capital flight from India
3. Prevent the drop in foreign exchange reserves

**Select the correct answer using the codes given below;**

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

**Answer: C**

The advantages of using Rupees for international transactions are,

**a)** India can avoid transactions in the highly-priced dollar which has an exchange value of ₹80, **b)** Provide stability to the Indian economy and prevent inflation and capital flight and **c)** Prevent the drop in foreign exchange reserves.

**Q.10) Which of the following is/are the potential Application/s of deep learning?**

1. Self Driving Cars
2. Voice recognition
3. Predicting Earthquakes

**Select the correct answer using the codes given below;**

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

**Answer: D**

**Potential Applications of deep learning:**

1. **Self Driving Cars:** Deep learning technology is being employed in self driving cars. It allow cars to learn roads, paths, stop signs, vehicle in front or back using proximity sensors, cameras etc allowing it to drive by itself.
2. **Voice recognition:** Deep learning is very successful in voice recognition technology. All major commercial speech recognition systems (e.g. Microsoft Cortana, Skype Translator, Amazon Alexa, Google Now, Apple Siri, etc.) are based on deep learning.
3. **Image recognition:** Deep learning based image recognition produce more accurate results. Deep learning based vehicles now interpret 360° camera views.
4. **Language translation:** Deep learning has helped in improving machine translation. Google Translate uses deep learning technology.
5. **Pharmaceutical applications:** A large number of drugs fail to get regulatory approval. These failures are caused by insufficient efficacy, undesired interactions or toxic effects. Researchers have uses deep learning to reduce such failures.
6. **Predicting Earthquakes and weather forecasting:** Harvard scientists used Deep Learning in predictions of earthquakes.

Source: [The Hindu](#)

**PRELIMS**

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**Q.1) With regard to 'Information Commissions', consider the following statements:**

- 1) Intelligence and security organizations specified in the Second Schedule of RTI act do not require to furnish info regarding allegations of corruption and human rights violation.
- 2) Chief Information Commissioners tenure of office is 3 years

**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

**Ans) b**

**Statement 1 is incorrect.** Intelligence and security organizations specified in the Second Schedule to the Act are exempt from furnishing information under the Act. However, this exemption does not apply if the requested information pertains to the allegations of corruption and human rights violations

Statement 2 is correct. The tenure of CICs was reduced to 3 years by the rules released in 2019. Originally the tenure was 5 years.

**Q.2) With regard to 'BHASHINI', consider the following statements**

- 1) It aims to build a National Public Digital Platform for languages to develop services and products for citizens.
- 2) It is a part of the National Language Translation Mission.

**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

**Ans) c**

**Statement 1 is correct.** Bhashini aims to build a National Public Digital Platform for languages to develop services and products for citizens by leveraging the power of artificial intelligence and other emerging technologies.

Statement 2 is correct. Bhashini is launched under the National Language Translation Mission of the Ministry of Electronics and Information Technology.

**Q.3) Which of the following statements is/are correct?**

- 1) Use of electric power to create mass production, was the feature of the 1st industrial revolution.
- 2) The use of computers started in the 4<sup>th</sup> Industrial revolution.

**Answer using the codes given below**

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

**Ans) d**

**Both statements 1 and 2 are incorrect.** The First Industrial Revolution used water and steam power to mechanize production. The Second used electric power to create mass production. The Third used electronics and information technology to automate production. Now a Fourth Industrial Revolution is building on the Third, the digital revolution that has been occurring since the middle of the last century. It is characterized by a fusion of technologies that is blurring the lines between the physical, digital, and biological spheres.

**Q.4) Consider the following statements regarding 'Weapons of Mass Destruction and their Delivery Systems (Prohibition of Unlawful Activities) Act, 2005'**

- 1) Weapons of mass destruction covered are biological, chemical, or nuclear weapons.
- 2) It also prohibits manufacturing of means of delivery of Weapons of Mass Destruction.
- 3) Civil courts have no jurisdiction on the matters under this act.

**Select the correct answer using the codes given below:**

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

**Ans) d**

**Statement 1 is correct.** Weapons of mass destruction are biological, chemical, or nuclear weapons as per the act.

**Statement 2 is correct.** The 2005 Act prohibits unlawful activities (such as manufacturing, transport, or transfer) related to weapons of mass destruction, and their means of delivery.

**Statement 3 is correct.** Bar of jurisdiction of civil courts.-No action or proceedings taken under section 5 and sub-sections (1) and (2) of section 7 of this Act by the Central Government or any officer authorised by it in this behalf shall be called in question in any civil court in any suit or application or by way of appeal or revision, and no injunction shall be granted by any civil court or other authority in respect of any action taken or to be taken in pursuance of any power conferred under those provisions.

**Q.5) Which of the following statements is/are correct?**

- 1) Meteorological Drought means lack of precipitation.
- 2) Hydrological drought means low levels of water in reservoirs.
- 3) Agricultural drought means lack of moisture in the soil.

**Select the answer using the codes given below**

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

**Ans) d**

Types of droughts as per NDMA:

Meteorological Drought – referring to lack of precipitation.

Agricultural drought – referring to lack of moisture in the soil where crops grow.

Hydrological drought – referring to low levels of water in reservoirs.

Socio-economic drought – referring to water shortages affecting people in society, which impacts availability of foodgrains, fodder, etc.

**Q.6) Exercise Pitch Black is a biennial exercise hosted by which of the following country?**

- a) France
- b) Australia
- c) The US
- d) The UK

**Answer: B**

Exercise Pitch Black is a biennial exercise hosted by the Australian Air Force.

**Aim:** To practice Offensive Counter Air(OCA) and Defensive Counter Air(DCA) combat in a simulated war environment.

**Participating countries:** The participating countries are Australia, Canada, France, Germany, Indonesia, India, Japan, Malaysia, Netherlands, New Zealand, the Philippines, South Korea, Singapore, Thailand, UAE, U.K and U.S.

Source: [The Hindu](#)

**Q.7) Which of the following statement is/are the correct about India's Antarctic Expedition?**

1. India conducted two Antarctic expedition before getting membership to Antarctic Treaty.
2. India has its own research ship with ice-breaking and other advanced technological capabilities.
3. Operation Gangotri was India's first Antarctic Expedition.

**Select the correct answer using the codes given below;**

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

**Answer: C**

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**Statement 1 and 3 are correct:** On January 9, 1982, India claimed that India's first Antarctic expedition (Operation Gangotri) has reached its destination. No other Asian country, including China, had a presence there.

A second expedition led by one of India's top geologists V.K. Raina landed in Antarctica on December 10, 1982.

With two expeditions successfully completed within a span of 11 months, India finally became a member of the Antarctic Treaty in 1983 and China followed in 1985.

**Statement 2 is incorrect:** India has been chartering polar research ships from countries like Russia and Norway while China has two of its own. A decision was taken in 2014 for India to have its own research ship with ice-breaking and other advanced technological capabilities but it remains unimplemented.

Source: [The Hindu](#)

**Q.8) Which of the following statement is not correct about Pingali Venkayya?**

- He was also known as Patti Venkayya because of his research into Cambodia Cotton.
- His earlier version of flag version of two red and green bands which represented two major religious communities.
- On the advice of Mahatma Gandhi, Venkayya added a white band which represented peace.
- His flag was approved by Jawaharlal Nehru at a Congress meeting in Haripura.

**Answer: D**

Venkayya designed several models of national flag starting from the one designed in 1921 which was approved by Mahatma Gandhi at a Congress meeting in Vijayawada.

Source: [PIB](#)

**Q.9) With reference to Regulation of Markets in Crypto-Assets agreement, consider the following statements;**

- Under this, crypto asset service providers will be liable in case they lose investors' assets, and will be subject to market-abuse regulations.
- This agreement was signed between the US and Crypto Issuers.

**Which of the statements given above is/are correct?**

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

**Answer: A**

**Statement 1 is correct:** Under this, crypto asset service providers will be liable in case they lose investors' assets, and will be subject to European market-abuse regulations, including those on market manipulation and insider trading.

**Statement 2 is incorrect:** The European Parliament and Council, the legislative arms of the European Union signed a provisional agreement titled 'Regulation of Markets in Crypto-Assets, or MiCA'.

Source: [The Hindu](#)

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**Q.10) With reference to National Food Security Act, consider the following statements;**

1. It is the 'world's largest food security programme' by distributing free foodgrain.
2. The NFSA expanded the coverage of the PDS to about two-thirds of the population.

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

**Answer: B**

**Statement 1 is incorrect:** Eligible persons will be entitled to receive 5 Kgs of foodgrains per person per month at subsidised prices of Rs. 3/2/1 per Kg for rice/wheat/coarse grains.

The Government implementing the 'world's largest food security programme' by distributing free foodgrain, through the Pradhan Mantri Garib Kalyan Anna Yojana (PMGKAY) to around 80 crore ration cardholders.

**Statement 2 is correct:** The NFSA expanded the coverage of the PDS to about two-thirds of the population.

Source: [The Hindu](#)

**PRELIMS**

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**Q.1) With reference to Infrastructure Finance Secretariat (IFS), consider the following statements:**

- 1) It works under the Department of Economic Affairs (DEA)
- 2) It will work on the capacity building of urban local bodies and village panchayats

**Select correct answer using the codes given below:**

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

**Ans) c**

**Exp)**

Statement 1 is correct. The IFS will function as an extended arm of the DEA

Statement 2 is correct. There is the expectation that decision-making, ownership and operations and maintenance of utilities (like Nal-Se-Jal) will cascade down to the next levels of the country's federal governance structure, viz. urban local bodies and village panchayats. This shift requires massive capacity-building at decentralized levels, which is one of the priority mandates of the IFS.

[Business Standard](#)

**Q.2) Which of the following statements correctly describes the term 'Employment Elasticity'?**

- a) It indicates the growth of the economy due to the increase in employment opportunities.
- b) It indicates the increase in the output of an organisation due to an increase in the number of employees.
- c) It is the ratio of shift of employment to the more productive sectors from low productive ones, due to economic growth.
- d) It indicates the ability of an economy to generate employment opportunities for its population as per cent of its growth

**Ans) d**

**Exp)**

Employment elasticity is a measure of the percentage change in employment associated with a 1 percentage point change in economic growth. The employment elasticity indicates the ability of an economy to generate employment opportunities for its population as per cent of its growth (development) process.

[Live mint](#)



## 10 PM Compilation for the Month of August, 2022

**Q.3) Which of the following statements is/are correct regarding Minerals Security Partnership (MSP)?**

- 1) It is a global initiative to bolster critical mineral supply chains.
- 2) India is one of the founding members of MSP

**Answer using the codes given below**

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

**Ans) a**

**Statement 1 is correct.** Minerals Security Partnership (MSP), an ambitious new initiative to bolster critical mineral supply chains. MSP partners – including Australia, Canada, Finland, France, Germany, Japan, the Republic of Korea, Sweden, the United Kingdom, the United States, and the European Commission

**Statement 2 is incorrect.** India is not a part of this partnership

[Indian Express](#)

**Q.4) Consider the following statements regarding Environment Protection Act (EPA), 1986**

1. There is no provision of imprisonment in EPA, for the violations of environmental laws.
2. The act was enacted to implement India's commitment under Stockholm conference, 1972.

**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

**Ans) b**

**Statement 1 is incorrect.** In case of any non-compliance or contravention of the current provisions of the EPA, or of the rules under this Act, the violator can be punished with imprisonment up to five years or with a fine up to Rs 1,00,000, or with both.

Statement 2 is correct. The Act of 1986 was enacted under Article 253[1] of Indian Constitution, for implementation of the decisions at *United Nations Conference on Human Environment at Stockholm* in 1972 in order to provide for progressive policy for protection of ecosystem and ecology.

**Q.5) Consider the following category of voters in India**

- 1) Migrant workers
- 2) Government officials deployed in Embassies outside the country
- 3) Non- Resident Indians
- 4) Persons working in Central Forces

**Which among the above categories are allowed to vote through Electronically Transmitted Postal Ballot System in India?**

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

**Ans. d)**

**Explanation**

Persons working in Central Forces under Arms Act and Government officials deployed in Embassies outside the country are classified as Service Voters and are provisioned for online enrolment.

For the first time in 2019, enabled through the dedicated portal

<https://www.servicevoter.eci.nic.in> online registration, the service voters were sent postal ballots electronically one way to save processing time, resources and avoid human errors.

The previous Lok Sabha had passed a bill to extend proxy voting facility to NRIs, but the bill lapsed.

Election commission is looking to provide remote voting facility to migrant workers.

**Q.6) Which of the following is/are the impact of freebies on Indian economy?**

1. Undermine credit culture.
2. Drop in labour force participation.
3. Eroding incentives for private investment.

**Select the correct answer using the codes given below;**

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

**Answer: D**

Freebies potentially undermine credit culture, distort prices through cross-subsidisation eroding incentives for private investment and disincentivising work at the current wage rate leading to a drop in labour force participation.

Source: [The Hindu](#)

**Q.7) With reference to Yuan Wang 5, consider the following statements;**

1. It is a Chinese ship that is en route to Hambantota, a strategically important deep-sea port.
2. It is a Chinese aircraft carrier.

**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

**Answer: A**

**Statement 1 is correct:** It is a Chinese ship that is en route to Hambantota, a strategically important deep-sea port.

**Statement 2 is incorrect:** It is a Chinese “spy ship” that is used for research and survey operations. ‘Yuan Wang’-class ships are used to track satellite, rocket and intercontinental ballistic missile (ICBM) launches.

China has around seven of these tracking ships that are capable of operating throughout the Pacific, Atlantic, and Indian oceans. The ships supplement Beijing’s land-based tracking stations.

Source: [Indian Express](#)

**Q.8) Which of the following person has written the book The Rihla?**

- a) Megasthenes
- b) Marco Polo
- c) Ibn Battuta
- d) Nicolo Conti

**Answer: C**

Indian Ocean trade routes since the old times include countries in the Arabian Gulf, East Africa, the Indian Peninsula, Bay of Bengal, Sri Lanka, Maldives, and other small island states. From the ports and harbours on Bahr Faris (Arabian Gulf) and down to the Swahili Coast on the west to the ports and harbours on the far east to Malacca.

For centuries, Indian Ocean navigators, shipowners and merchants were the custodians of all trade routes that crisscrossed the Indian Ocean.

Ibn Battuta in his book The Rihla talks of his travels in the Maldives and all throughout the Indian Ocean trading ports.

Answer: [The Hindu](#)

## 10 PM Compilation for the Month of August, 2022

**Q.9) With reference to India's updated Nationally Determined Commitments, consider the following statements;**

1. Accordingly, at least 50% of India's total electricity generation, not just 40%, would come from renewable sources by 2030.
2. India included all the 'Panchamrit' pledge it made in COP26 into updated NDC.


**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

**Answer: A**

**Statement 1 is correct:** Accordingly, at least 50% of India's total electricity generation, not just 40%, would come from renewable sources by 2030.

**Statement 2 is incorrect:** India included only two of the 'Panchamrit' pledge it made in COP26 into updated NDC.



**PRIME MINISTER'S PANCHAMRIT ANNOUNCED IN GLASGOW**

Promise	Whether included in new NDC
Non-fossil fuel electricity installed capacity to reach 500 GW	Not included
At least 50 per cent of total installed electricity generation capacity to come from non-fossil fuel sources	Included
Reduction of one billion tonnes of carbon dioxide equivalent from cumulative projected emissions between now and 2030	Not included
At least 45 per cent reduction in emission intensity of GDP by 2030	Included
<b>Net zero status by 2030</b>	<b>Never intended to be part of NDC</b>

Source: [PIB](#)

## 10 PM Compilation for the Month of August, 2022

**Q.10)** With reference to **President as a Supreme Commander of the Armed Forces**, consider the following statements;

1. The term “defence forces of the Union” is defined in the Constitution.
2. India follows the British precedent and declared that the supreme command of the Defence Forces of the Union shall be vested in the President.

**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

**Answer: B**

**Statement 1 is incorrect:** The term “defence forces of the Union” is nowhere defined in the Constitution.

**Statement 2 is correct: Article 53(2)** mentions “Without prejudice to the generality of the foregoing provision, the supreme command of the Defence Forces of the Union shall be vested in the President and the exercise thereof shall be regulated by law”.

The President of India ended up becoming the Supreme Commander of the Indian Armed Forces for the simple reason that the members of the Constituent Assembly decided to follow British precedent.

Source: [Indian Express](#)

**PRELIMS**

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**Q.1) Which of the following aircraft carrier has not been commissioned yet in the Indian Navy?**

- a) INS Vikrant
- b) INS Viraat
- c) INS Vikramaditya
- d) INS Vikrant or IAC-1

**Ans) d**

India's first indigenous aircraft carrier, or IAC-1, had been under construction.

Since independence, India has cumulatively operated three aircraft carriers. The second INS Vikrant, which will be commissioned soon, will be the fourth. Two of these, the original INS Vikrant (19,000 tonnes) and the INS Viraat (28,000 tonnes), have been decommissioned, leaving the navy with only one serving carrier: The 44,000-tonne INS Vikramaditya.

**Q.2) Consider the following statements regarding the Financial Stability Report:**

- 1) It is published by RBI
- 2) It includes contributions from all the financial sector regulators.

**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

**Ans) c**

**Statement 1 and 2 are correct.**

The Financial Stability Report (FSR) is published biannually and includes contributions from all the financial sector regulators. Accordingly, it reflects the collective assessment of the Sub Committee of the Financial Stability and Development Council (FSDC-SC) on risks to stability of the Indian financial system.

**Q.3) Which of the following initiatives can be categorised as a "Lifestyle for the Environment" (LiFE) initiative?**

- 1) Use of bicycles to go to the office
- 2) Turning off ACs, heaters and lights when not in use
- 3) Consuming green vegetables as much as possible

**Select the answer using the codes given below**

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

**Ans) a**

## 10 PM Compilation for the Month of August, 2022

Option 1 and 2 are correct. The concept of “Lifestyle for the Environment” (LiFE) — advocating for “mindful and deliberate utilisation” by people worldwide, instead of “mindful and wasteful consumption”. It includes avoiding wasteful consumption and productions.

Option 3 is not correct. Avoiding food wastage can reduce an individual’s carbon footprint by 370 kg per year. However, just relying on green vegetables without avoiding food wastage won’t help.

### Q.4) Consider the following statements regarding ‘Radio frequencies’

- 1) High-frequency waves carry more data and are faster than lower-frequency waves
- 2) Lower-frequency waves can be blocked or obstructed easily.
- 3) Lower-frequency waves can provide wider coverage.

**Select the correct answer using the codes given below**

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

**Ans) c**

**Statement 1 is correct.** Statement 2 is incorrect. High-frequency waves carry more data and are faster than lower-frequency waves but can be blocked or obstructed easily.

Statement 3 is correct. Lower-frequency waves can provide wider coverage.

For example, for mobile technology in India, 2G services use the 900 MHz and 1800 MHz bands, 3G uses 900 MHz and 2100 MHz, 4G uses 850 MHz, 1800 MHz, 2300 MHz, and 2500 MHz, and 5G uses 3.5MHz and 700 MHz bands.

### Q.5) Which of the following was the outcome of 1917 Russian Revolution?

- a) It led to the rise of soviets (workers' groups).
- b) It led to the introduction of the New Economic Policy.
- c) It resulted into October manifesto, which transformed Russia from autocracy into a constitutional monarchy.
- d) It overthrew the imperial government and placed the Bolsheviks in power

**Ans) d**

Russian Revolution, also called Russian Revolution of 1917, two revolutions in 1917, the first of which, in February (March, New Style), overthrew the imperial government and the second of which, in October (November), placed the Bolsheviks in power.

**Q.6) Which of the following is/are correct about Dairy Sector?**

1. India is ranked 1st in milk production contributing 23% of global milk production.
2. Gujarat is the highest milk-producing state in India.
3. India is ranked 2<sup>nd</sup> in milk exports.

Select the correct answer using the codes given below;

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

**Answer: A**

**Statement 1 is correct:** India is ranked 1st in milk production contributing 23% of global milk production.

**Statement 2 is incorrect:** Uttar Pradesh is the highest milk-producing state in India contributing around 18% to the total milk production followed by Rajasthan, Andhra Pradesh, Gujarat and Punjab.

**Statement 3 is incorrect:** India is yet to join the ranks of major milk exporting nations as much of what we produce is directed towards meeting domestic demands.

Source: [Indian Express](#)

**Q.7) With reference to Rare Earth Elements (REEs), consider the following statements**

1. It comprises 15 lanthanides elements and yttrium alone.
2. China is one of the leading producers of REEs with an estimated 70% share of the global production.

**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

**Answer: B**

**Statement 1 is incorrect:** Rare earth elements (REEs) are a group of seventeen chemically similar metallic elements on the periodic table. It comprises 15 lanthanides elements (lanthanum to lutetium), plus scandium and yttrium. REEs are classified as light RE elements (LREE) and heavy RE elements (HREE).

**Statement 2 is correct:** There is a dependence on countries such as China for heavy RE elements (HREEs). This is because China is one of the leading producers of REEs with an estimated 70% share of global production.

Source: [Indian Express](#)



10 PM Compilation for the Month of August, 2022

**Q.8) Consider the following pairs,**

- |                          |   |  |
|--------------------------|---|--|
| Tribal Freedom Fighters  | - | Associated event/title                                     |
| 1. Tantiya Bhil          | - | Robin Hood of the Central Provinces                        |
| 2. Major Paona Brajabasi | - | Swatantra Sainani  |
| 3. Helen Lepcha          | - | Helped Netaji Subhas Chandra Bose escape from house arrest |
| 4. Pulimaya Devi Podar   | - | Hero of the Anglo-Manipur war                              |

**How many pairs given above are correctly matched?**

- a) Only one pair
- b) Only two pairs
- c) Only three pairs
- d) All four pairs

**Answer: B**

- |                          |   |  |
|--------------------------|---|--|
| Tribal Freedom Fighters  | - | Associated event/title                                     |
| 1. Tantiya Bhil          | - | Robin Hood of the Central Provinces                        |
| 2. Major Paona Brajabasi | - | Hero of the Anglo-Manipur war                              |
| 3. Helen Lepcha          | - | Helped Netaji Subhas Chandra Bose escape from house arrest |
| 4. Pulimaya Devi Podar   | - | Swatantra Sainani  |

**Source:** [PIB](#)

**Q.9) With reference to Hasdeo Aranya region, consider the following statements;**

- 1. It lies in the catchment area of the Hasdeo river in Chhattisgarh.
- 2. The Hasdeo river is a tributary of the Godavari 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

**Answer: A**

**Statement 1 is correct:** The Hasdeo Aranya (Aranya means forest) lies in the catchment area of the Hasdeo river in North-Central Chhattisgarh.

**Statement 2 is incorrect:** The Hasdeo river is a tributary of the Mahanadi river which originates in Chhattisgarh and flows through Odisha into the Bay of Bengal.

Source: [The Hindu](#)

**10 PM Compilation for the Month of August, 2022**

**Q.10) With reference to Mineral Security Partnership(MSP), consider the following statements;**

1. It is a Chinese-led partnership to secure supply chains of coal and gold.
2. It aims to catalyze investment from governments and the private sector to develop strategic opportunities.

**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

**Answer: B**

**Statement 1 is incorrect:** It is a US-led partnership to secure supply chains of critical minerals, aimed at reducing dependency on China.

**Statement 2 is correct:** It aims to catalyze investment from governments and the private sector to develop strategic opportunities.

Source: [Indian Express](#)

**PRELIMS**

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**Q.1) Consider the following statements regarding Indian Women's Press Corps (IWPC):**

- 1) IWPC is an organisation to assist women journalists
- 2) It is registered under the Indian Societies Registration Act, 1860

**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

**Ans) c**

**Explanation)**

Statement 1 is correct. Indian Women's Press Corps (IWPC) is India's first association of women journalists. It is a registered Society, provides a forum for women journalists to network, access news sources, enhance their skill, exchange information, discuss issues, voice concerns, interact with peers and seniors, share experiences and find support to move ahead in the profession

Statement 2 is correct. It was incorporated on January 20, 1994 and formally launched on October 5, 1994. It is registered under the Indian Societies Registration Act, 1860.

[Base article](#)

**Q. 2) Consider the following statements regarding Commonwealth of Nations**

- 1) Any country can apply to be a member of the Commonwealth.
- 2) All countries that were former British colonies, are members of commonwealth.

**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

**Ans) a**

**Explanation)**

Statement 1 is correct. Any country can apply to be a member of the Commonwealth, regardless of its intersection with Britain's colonial past. Rwanda and Mozambique became members in 2009 and 1995 respectively, and neither were colonised by the British.

Statement 2 is incorrect. Not all the countries that were former British colonies, are members of commonwealth. Some countries like Myanmar never applied for the membership.

**Q.3) Which of the following are the correct nationally determined commitment of India?**

- 1) India will now reduce its emission intensity by at least 45% from 2005 levels by 2030.
- 2) At least 50% of India's total electricity generation, would come from renewable sources by 2030.

**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

**Ans) c**

**Explanation)**

Statement 1 and 2 are correct. Only two of these targets have been made official and put in the updated NDC. These are:

- India will now reduce its emission intensity by at least 45%, instead of just 33 to 35%, from 2005 levels by 2030.
- It would also ensure that at least 50% of its total electricity generation, not just 40%, would come from renewable sources by 2030.

[Base Article](#)

**Q.4) Consider the following statements regarding smallpox and monkey pox?**

- 1) Both smallpox and monkey pox diseases are caused by Orthopoxvirus.
- 2) Both diseases spread by person to person transmission.

**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

**Ans) c**

Statement 1 is correct. Smallpox is caused by variola virus, genus *Orthopoxvirus*. Other members of this genus that can infect humans are vaccinia virus, monkeypox virus, and cowpox virus. In 1980, the World Health Organization officially declared the worldwide eradication of smallpox.

Statement 2 is correct. Smallpox spread from person to person is principally respiratory; contact with infectious skin lesions or scabs is an uncommon mode of transmission. After zoonotic transmission, monkeypox spread from person to person is principally respiratory; contact with infectious skin lesions or scabs is another, albeit less common, means of person-to-person spread.

## 10 PM Compilation for the Month of August, 2022

Q.4) With reference to Hippopotamus, consider the following statements;

1. They live along the salty waters throughout South Asia.
2. Hippos seek refuge from the heat by living in water during the day, and at night they come ashore to feed on short, soft grasses and fallen fruit.

**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

Answer: B

**Statement 1 is incorrect:** Hippopotamus is also known as the river horse. They live along the rivers and lakes throughout sub-Saharan Africa.

It is one of only two extant species in the family Hippopotamidae, the other being the pygmy hippo which lives in forested areas in very few countries across west Africa.

**Statement 2 is correct:** Hippos seek refuge from the heat by living in water during the day, and at night they come ashore to feed on short, soft grasses and fallen fruit.

Source: [Indian Express](#)

Q.5) With reference to Taiwan, consider the following statements;

1. China has an annual trade deficit of around \$80 billion with Taiwan.
2. Taiwan is not a member of WTO (World Trade Organization) and Asia-Pacific Economic Corporation (APEC).

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

**Answer: A**

**Statement 1 is correct:** China is Taiwan's largest trading partner, and China has an annual trade deficit of around \$80 billion to \$130 billion with Taiwan. China is dependent on the semiconductors produced in Taiwan in a big way.

**Statement 2 is incorrect:** Taiwan is a member of WTO (World Trade Organization) and Asia-Pacific Economic Corporation (APEC) under the name of "Chinese Taipei". However, Taiwan is not a member of the UN (United Nations) and WHO (World Health Organization). However, Taiwan is not a member of the UN (United Nations) and WHO (World Health Organization).

Source: [The Hindu](#)

**Q.6) 'Badhe Chalo' Movement which was seen in news is explained in which of the following statements?**

- a) It is a farmer's movement similar to the Delhi Chalo Movement.
- b) It is a government movement to promote sports among youth.
- c) It is a movement of tribal people that aims to increase their financial and administrative powers in Tribal areas.
- d) It is a movement that aims to connect with the youth of the nation and to instil a deeper sense of patriotism among them.

**Answer: D**

The '**Badhe Chalo' Movement** is organized by **the** Ministry of Culture under 'Azadi ka Amrit Mahotsav'

It aims to connect with the youth of the nation and to instil a deeper sense of patriotism among them.

The movement will feature **Flash Dances** happening across 75 cities where dancers will perform on a specially created '**Youth Anthem**'.

Source: [PIB](#)

**Q.7) Which of the following is/are the benefits associated with the Online Dispute Resolution(ODR)?**

1. It can be tailor-made for the specific use case keeping the participants in mind.
2. The ODR will help mitigate litigation risk and provide valuable insights into problems faced by consumers.
3. The ODR can facilitate an enhanced user experience.

**Select the correct answer using the codes given below;**

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

**Answer: D**

The advantage of ODR include, **1)** The ODR is not restricted to the use of legal mechanisms such as mediation, conciliation and arbitration in an online environment but can be tailor-made for the specific use case keeping the participants in mind, **2)** The ODR can not only digitise the entire value chain but can also facilitate an enhanced user experience, **3)** The ODR will help mitigate litigation risk and provide valuable insights into problems faced by consumers, **4)** Consumers are provided with another choice for effective redress of their grievances, thereby building trust, confidence and brand loyalty.

Source: [The Hindu](#)

**Q.8) Consider the following statements,**

1. He was a Jain poet, philosopher, scholar and reformer.
2. He wrote a large number of philosophical poems including Atma Siddhi.
3. He is best known for his teachings and his spiritual guidance to Mahatma Gandhi.

**Which of the following personality is described in the statements above?**

- a. Shrimad Rajchandra
- b. Siddharaja
- c. Haribhadra Suri
- d. Sarvajna Hemachandra

Answer: A

Source: [AIR](#)

**Q.9) With reference to Carbon Markets, consider the following statements;**

1. Carbon markets allow the trade of carbon credits with the overall objective of bringing down emissions.
2. Carbon markets will work only at the international level.

**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

**Answer: A**

**Statement 1 is correct:** Carbon markets allow the trade of carbon credits with the overall objective of bringing down emissions. These markets create incentives to reduce emissions or improve energy efficiency.

**Statement 2 is incorrect:** They exist at national level also. For example,

**Europe:** There is an emission trading scheme (ETS) in Europe. Under this, industrial units in Europe have prescribed emission standards to adhere to and they buy and sell credits based on their performance.

**India:** There is a scheme called [PAT\(or perform, achieve and trade\)](#). It allows units to earn efficiency certificates if they outperform the prescribed efficiency standards. The laggards can buy these certificates to continue operating.

Source: [Indian Express](#)

## 10 PM Compilation for the Month of August, 2022

**Q.10) With reference to Member of Parliament (MPs) privileges on arrests, consider the following statements;**

1. A MP can claim special status higher than that of an ordinary citizen on criminal matters.
2. A MP cannot be arrested in a civil case 40 days before the commencement of the session or committee meeting and 40 days thereafter.

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

Answer: B

**Statement 1 is incorrect:** In criminal matters, members of Parliament are not on a different footing than a common citizen. That means members of Parliament do not enjoy any immunity from being arrested in a criminal case during the session or otherwise.

**Statement 2 is correct:** A member of Parliament cannot be arrested in a civil case 40 days before the commencement of the session or committee meeting and 40 days thereafter. This privilege is already incorporated under Section 135A of the Civil Procedure Code, 1908.

Source: [The Hindu](#)



**PRELIMS**

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**Q.1) with reference to Small Satellite Launch Vehicle (SSLV), consider the following statements**

- 1) While SSLV is intended to put satellites into low earth orbit, PSLV puts satellites into higher earth orbits.
- 2) The turnaround time of SSLV is much lower than the PSLV.

**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

**Answer: b**

Statement 1 is incorrect. SSLV-D1 mission would launch EOS-02, a 135 kg Satellite, into low earth orbit of about 350 km to the equator, at an inclination of about 37 degrees. The SSLV is completely different from the PSLV even though both are used for launching satellites into Low Earth Orbit.

Statement 2 is correct. While PSLV dominates SSLV in the above segments, the new rocket wins when it comes to turn-around time. Turn-around time means readying a rocket for the next launch and SSLV can be prepared and shifted to the launch pad in just over 72 hours, as against the two months required to prep the PSLV.

**Q.2) Consider the following statements:**

- 1) India's gross tax to GDP ratio has been less than 15% in the last 10 years
- 2) Indirect tax collection has been more than direct tax collection in the last 5 years.

**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

**Answer: a**

Statement 1 is correct. India's tax to GDP ratio was 11.7% in 2021-22, which was atleast 23-year high.

Statement 2 is incorrect. India had been facing the criticism that indirect taxes are higher than direct taxes. However, in 2021-22, Direct taxes are 6.1% of GDP, and indirect taxes are 5.6%.

**Q.3) Consider the following pairs:**

Ports	Countries
1) Chittagong	Myanmar
2) Hambantota -	Sri Lanka
3) Gwadar	Afghanistan
4) Chabahar	Iran

**Which of the above pairs is/are correctly matched?**

- a) 2 and 4 only
- b) 1, 2 and 4 only
- c) 2, 3 and 4 only
- d) 1 and 4 only

**Ans) a**

Following is the correct match

1) Chittagong	Bangladesh
2) Hambantota -	Sri Lanka
3) Gwadar	Pakistan
4) Chabahar	Iran

**Q.4) Consider the following statements regarding location of Taiwan:**

- 1) Tropic of Capricorn goes through Taiwan.
- 2) Philippine sea, South China sea and East China sea are bordering Taiwan.

**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

**Answer: b**

Statement 1 is incorrect. Tropic of cancer cut across Taiwan.

Statement 2 is correct.



## 10 PM Compilation for the Month of August, 2022

### Q.6) With reference to minor minerals, consider the following statements;

1. Environmental clearance is compulsory for mining in areas.
2. Regulatory and administrative powers of minor minerals are entrusted exclusively to the Centre.

#### 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

#### Answer: A

**Statement 1 is correct:** Earlier environmental clearance was compulsory for mining in areas more than or equal to five hectares. But the Environment Impact Assessment (EIA) Notifications have been amended in 2016 to make environmental clearance for mining in areas less than five hectares mandatory.

**Statement 2 is incorrect:** The regulatory and administrative powers to frame rules, prescribe rates of royalty, mineral concessions, enforcement, etc. are entrusted exclusively to the State governments.

Source: [The Hindu](#)

### Q.7) Consider the following statements;

1. He discovered the basic principles of heredity and laid the mathematical foundation of the science of genetics.
2. His works have been unearthed and recognized posthumously.
3. He deduced that genes come in pairs and are inherited as distinct units, one from each parent.

#### Which of the following personality is described in the statements above?

- a) Charles Darwin
- b) Rachel Carson
- c) Gregor Mendel
- d) George Washington Carver

#### Answer: C

Source: [The Hindu](#)

### Q.8) With reference to India Ki Udaan Project, consider the following statements;

1. It celebrates the achievements of India and is based on the theme 'Unwavering and undying spirit of India over these past 75 years'.
2. The project is executed by the Ministry of Civil Aviation.

#### 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

#### Answer: A

**Statement 1 is correct:** It celebrates the achievements of India and is based on the theme 'Unwavering and undying spirit of India over these past 75 years'.

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## 10 PM Compilation for the Month of August, 2022

The centrepiece of its celebrations is a new online collection titled "India Ki Udaan". It features India's rich cultural diversities, including iconic moments from the last 75 years.

**Statement 2 is incorrect:** The project is executed by the Google Arts and Culture.

Source: [NDTV](#)

**Q.9) With reference to Small Satellite Launch Vehicles (SSLVs), consider the following statements;**

1. The SSLV rocket usually places these satellites in an elliptical orbit which is stable due to the Earth's attraction force.
2. SSLV can enable a space launch from India every week.

**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

**Answer: B**

**Statement 1 is incorrect:** The SSLV rocket usually places these satellites in a circular one. But the recent SSLV rocket placed these satellites in an elliptical orbit instead of a circular one. An elliptical orbit is the lowest orbit and is not stable due to the Earth's attraction force due to which the satellites could not stay in orbit and have already crashed. As a result, these satellites are no longer usable.

**Statement 2 is correct:**

Advantages of SSLV are,

**1)** Can be assembled within 72 hours by a team of just 5-6 people. **2)** It costs at least one-tenth of those currently in use. **3)** It can enable a space launch from India every week. **4)** It caters specifically to the small and micro satellites that constitute over 90% of all satellites being launched these days.

Source: [Business Standard](#)

**Q.10) Which of the following is/are the impact of sand mining?**

1. Increase in flood frequency.
2. Create losses to the state exchequer.
3. Affects the soil holding ability of the land.

**Select the correct answer using the codes given below;**

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

**Answer: D**

Illegal sand mining severely affects soil formation and the soil holding ability of the land, leading to a loss in marine life, an increase in flood frequency, droughts, and also degradation of water quality.

These effects can be seen in the beds of the Godavari, the Narmada, Yamuna and the Mahanadi basins.

In Narmada basin, sand mining has reduced the population of Mahseer fish from 76% between 1963 and 2015.

Apart from these, illegal mining can also create losses to the state exchequer. For instance, U.P. is losing revenue from 70% of mining activities as only 30% area is legally mined.

Source: [The Hindu](#)

**PRELIMS**

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**Q.1) Consider the following statements**

- 1) India has second largest number of tribal people in any country.
- 2) Jharkhand has highest tribal population in India.
- 3) Santhal are the largest tribe of India.

**Select the correct answer using the codes given below**

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

**Ans) c**

Statement 1 is correct. India has the second largest concentration of tribal people in the world. Africa is the first in this regard.

Statement 2 is incorrect. As per the census 2011 of India, Madhya Pradesh has the highest tribal population in India.

Statement 3 is correct. The Santhal are the largest and one of the oldest tribes in India, They are spread across Assam, Bihar, Chhattisgarh, Jharkhand, Odisha and West Bengal.

**Q.2) Recently approved draft GSR (general statutory rules) Notification, is intended to fulfil, which of the following purposes?**

- 1) To assess crash safety of a vehicle
- 2) To increase exports of Indian vehicles
- 3) To assess the pollution level of a vehicle

**Select the correct answer using the codes given below**

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

**Ans) a**

Options 1 and 2 are correct. Union Minister for Road, Transport and Highways Nitin Gadkari approved a Draft GSR (general statutory rules) Notification seeking comments on a proposal to introduce the Bharat New Car Assessment Program (Bharat-NCAP). It would accord vehicles a star rating based on their performance in crash tests. They are intended to increase the export-worthiness of vehicles and competition on safety parameters among manufacturers, as well as instil consumer confidence in their safety.

Option 3 is incorrect. There is no such proposal in the given proposal.

**Q.3) Which of the following benefits of reforestation is correct?**

- 1) Forests absorbs carbon dioxide
- 2) Forests absorbs volatile organic compounds (VOCs)
- 3) Forests lessens rural-to-urban migration

**Answer using the codes given below**

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

**Ans) c**

Statement 1 is correct. Influencing the carbon cycle and mitigating the effects of climate change. Annually, forests absorb roughly 2.6 billion tonnes of carbon dioxide. It is 33% of the total CO<sub>2</sub> released due to fossil fuel burning.

**Statement 2 is incorrect.** Trees and other plants produce hundreds to thousands of volatile organic compounds (VOCs). These carbon-based chemicals easily evaporate from a liquid or solid into air at much lower temperatures than most chemicals.

**Statement 3 is correct.** Agroforestry lessens rural-to-urban migration by increasing resources and household income.

**Q.4) Consider the following statements regarding Forest Landscape Restoration:**

- 1) It aims at regaining ecological functionality of the forest as well as improving human welfare by it.
- 2) The process focus on introducing the best plants from around the world to make the existing forest better.

**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

**Ans) a**

**Statement 1 is correct.** FLR is the process of **regaining ecological functionality and improving human welfare** on deforested or degraded forest landscapes.

**Statement 2 is incorrect.** This process ensures the diversity of the native tree species during plantation. As diversity results in more efficient carbon sequestering than monoculture tree plantations.

**Q.5) With reference to North East Special Infrastructure Development Scheme, consider the following statements:**

1. It is a Central Sector Scheme.
2. The scheme also covers projects related to social infrastructure relating to primary and secondary sectors of education and health.

**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

**Answer: c**

**Both statements are correct.**

**About NESIDS scheme:**

- North East Special Infrastructure Development Scheme(NESIDS) was approved by the Government of India as a Central Sector Scheme in 2017.
- The scheme aims to fill up the gaps in creation of infrastructure in specified sectors in North east till March,2020.
- The scheme will cover the projects of (a)physical infrastructure relating to water supply, power and connectivity enhancing tourism and (b)Social infrastructure relating to primary and secondary sectors of education and health.
- The funds under the scheme will be distributed among eight North Eastern States on the basis of well-defined criteria on certain parameters such as area, population , Human Development Index, road density among others.

**Q.6) With reference to Strategic Petroleum Reserves (SPRs), consider the following statements:**

3. The International Energy Agency forbids trading of SPRs.
4. Japan has the highest global SPR capacity.

**Which of the statements given above is/are incorrect?**

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

**Answer: b**

- **Statement 1 is correct:** The IEA forbids trading and typically allows release of stocks only during emergencies or supply shocks.
- **Statement 2 is incorrect:** USA has the highest global SPR capacity. Japan is at the second place and China is at the third position.

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**Q.6) With reference to Peninsular Rock Agama, consider the following statements;**

1. The Peninsular Rock Agama is a type of garden lizard that has a strong presence in southern India.
2. These are found mainly in rocky places and warm spots.

**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

**Answer: C**

**Statement 1 is correct:** The Peninsular Rock Agama (*Psammophilus dorsalis*) is a type of garden lizard that has a strong presence in southern India.

**Statement 2 is correct:** A study has revealed that Rock Agama lizards are found mainly in rocky places and warm spots. Thus, the inference is that conservation efforts must point towards retaining rocky patches even while reviving landscapes by planting trees.

Source: [The Hindu](#)

**Q.7) With reference to International Mobile Equipment Identity (IMEI), consider the following statements;**

1. All mobile phones have a single IMEI number.
2. The IMEI number can help network providers track down a device in case it gets stolen or is lost.

**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

**Answer: B**

**Statement 1 is incorrect:** IMEI is a unique number that is used to identify a device on a mobile network. It has 15 digits and is like a phone's unique identity.

When one uses the internet or places a call through their cellular service provider, then this number is used to verify the identity of the device. If the person has a dual SIM phone, then s/he will have two IMEI numbers, one for each slot.

**Statement 2 is correct:** The IMEI number can help network providers track down a device in case it gets stolen or is lost.

Source: [Indian Express](#)

**Q.8) Exercise Vajra Prahar is a Joint Special Forces exercise between India and which of the following country?**

- a) Canada
- b) Australia
- c) The USA
- d) Japan

**Answer: C**

Exercise Vajra Prahar is a [Special Forces](#) joint military training exercise.

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It takes place alternately in India and the US since 2010.

**Aim:** To enable sharing of best practices and experiences in areas such as, joint mission planning capabilities and operational tactics.

**Significance:** The exercise is a significant step in strengthening the traditional bond of friendship between the special forces of both Nations as well as improve bilateral defence cooperation between India and the USA.

Source: [PIB](#)

**Q.9) With reference to solar PV panel, consider the following statements;**

1. It is mandatory to procure modules only from an approved list of manufacturers (ALMM) for projects that are connected to state/ central government grids.
2. Silicon wafer, the most expensive raw material, is manufactured completely 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

**Answer: A**

**Statement 1 is correct:** It is mandatory to procure modules only from an approved list of manufacturers (ALMM) for projects that are connected to state/ central government grids; so far, only India-based manufacturers have been approved.

**Statement 2 is incorrect:** Silicon wafer, the most expensive raw material, is not manufactured in India. More than 90% of the world's solar wafer manufacturing currently happens in China.

Source: [Indian Express](#)

**Q.10) With reference to Medical Termination of Pregnancy (MTP), consider the following statements;**

1. The MTP rules permit unmarried woman to terminate her pregnancy.
2. The Medical practitioners have to ascertain that continuance of the pregnancy would risk the life of the pregnant woman or substantial risk to the child if it is born.

**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

**Answer: B**

**Statement 1 is incorrect:** The Medical Termination of Pregnancy Act, 1971 and its Rules, 2003 permit termination of pregnancies of up to 24 weeks in seven specific categories, including survivors of rape or sexual assault, minors, in case of physical disabilities and fetal malformation. These seven categories represent women who were “extremely vulnerable”. But it didn’t permit unmarried woman to terminate her pregnancy.

The Supreme Court last week held that it will permit a 51-year-old unmarried woman to terminate her pregnancy. The judgement could have been cited in support of other women in a similar situation, but it didn't. So others would still have had to take the legal route, and wait upon the discretion of individual judges.

**Statement 2 is correct:** The act allows a woman to terminate her pregnancy within the first 12 weeks of pregnancy. After consulting an RMP (registered medical practitioner) woman can terminate her pregnancy.

The Medical practitioners have to ascertain that continuance of the pregnancy would risk the life of the pregnant woman or substantial risk (Physical or mental abnormalities) to the child if it is born.

**Source:** [The Hindu](#)

**PRELIMS**

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**Q.1) Consider the following statements**

- 1) Energy Conservation Act, 2001 covers the issue of energy conservation in large residential buildings.
- 2) The concept of carbon trading was initiated by Kyoto Protocol at the global level.

**Select the correct answer using the codes below:**

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

**Ans) b**

Statement 1 is incorrect. The 2022 amendment Bill seeks to widen the scope of energy conservation to include large residential buildings as well. Till now, the energy conservation rules applied mainly on industrial and commercial complexes.

Statement 2 is correct. The Kyoto Protocol was the first vehicle for emissions trading in greenhouse gases—or what we will call carbon markets.<sup>4</sup> Kyoto set up a system of emissions limits for a basket of six GHGs for developed countries, mechanisms for those developed countries to trade their emissions limits, and mechanisms for developed countries to offset their emissions by financing emissions reductions in developing countries.

**Q.2) With reference to Electricity Distribution, consider the following statements regarding the concept of 'Open Access'**

- 1) Concept of Open Access means a consumer cannot be stopped from getting an electricity connection.
- 2) Electricity Act, 2003 has the provision of Open Access.

**Select the correct answer using the codes below:**

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

**Ans) b**

Statement 1 is incorrect. Open Access means, electricity consumers now have the right to procure power from the supplier of their choice other than the distribution company that they were buying from.

Statement 2 is correct. The provision of Open Access is given in the sub-section 2, of section 42 of the Electricity Act 2003.

**Q.3) Which of the following statements best describes the concept of 'cross-subsidization':**

- a) It means one group of consumers is charged a lower price compared to another group, using the finances earned by charging higher prices from the latter group.
- b) It means subsidizing the wrong beneficiary, instead of the original one.
- c) It means subsidizing the target beneficiary through the finances collected from same beneficiaries only.
- d) It means subsidizing an industry from the disinvestment in that particular industry.

**Ans) a**

Cross-subsidies in electricity tariff, therefore, can be defined as a mechanism whereby some consumer groups are charged a higher tariff as compared to the cost of supplying power to them. The additional revenue generated from them is used to tide over the revenue shortfall from other consumer groups, who are charged lesser tariff as compared to the cost of supplying power to them.

**Q.4) Which of the following statements is incorrect?**

- a) 1982 UN Convention for Law of the Seas permits unfettered freedom of navigation on the high seas
- b) In the 200-mile exclusive economic zone, there exists the conditional right of "innocent passage" for all vessels, excluding warships.
- c) Entry into foreign ports, especially for warships, has to be with prior consent.
- d) In wartime, the 1907 Hague Convention permits entry for warships of belligerents into neutral ports for limited durations.

**Ans) b**

The 1982 UN Convention for Law of the Seas permits unfettered freedom of navigation on the high seas and a foreign warship has as much right to be in the Indian Ocean as a similar Indian vessel would in the South China Sea. Even in the 200-mile exclusive economic zone, there exists the conditional right of "innocent passage" for all vessels, including warships.

Entry into foreign ports, especially for warships, has to be with prior consent. But even in wartime, the 1907 Hague Convention permits entry for warships of belligerents into neutral ports for limited durations. Given its cordial diplomatic relations, and its economic dependence on China, there could be no plausible reason for Sri Lanka to deny entry for Yuan Wang 5, especially into Hambantota on which China has a 99-year lease.

**Q.5) Which of the following statements are correct regarding ichnites?**

- 1) An ichnite is a type of trace fossil that preserves evidence of biological activity.
- 2) These are not part of an organism's body.

**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

**Ans) c**

Both statements are correct. An ichnite is a type of trace fossil, which is a fossil that preserves evidence of biological activity but which is not part of an organism's body. Examples of trace

fossils are footprints (ichnites), burrows, and root cavities. Coprolites and other fossilized bodily excretions are also often considered trace fossils.

**Q.6) Which of the following is/are the advantages of Ocean thermal energy conversion?**

1. It can produce energy at all times.
2. It produces clean, environmentally friendly renewable energy.
3. It can work in all the regions of the world.

**Select the correct answer using the codes given below;**

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

**Answer: C**

Ocean thermal energy conversion(OTEC) is a process or technology for producing energy by harnessing the temperature differences (thermal gradients) between ocean surface waters and deep ocean waters.

**Advantages of OTEC:** Two of the biggest advantages of OTEC are: **1)** It produces clean environmentally friendly renewable energy and **2)** Unlike solar plants which can't work at night and wind turbines which only work when it's windy, OTEC can produce energy at all times.

**Disadvantages of OTEC:** The disadvantages are that **a)** It is economically expensive and **b)** It only works in a few regions of the world as the required temperature difference is only present in tropical waters.

Source: [DTE](#)

**Q.7) With reference to Soil Mapping, consider the following statements;**

1. It is the process of delineating natural bodies of soils, classifying and grouping the delineated soils into map units.
2. It can reduce wastage when applying fertilizers and increase their effectiveness.

**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

**Answer: C**

**Statement 1 is correct:** It is the process of delineating natural bodies of soils, classifying and grouping the delineated soils into map units.

**Statement 2 is correct:** It will reduce wastages when applying fertilizers and increase their effectiveness. Further, it will enhance the understanding of what types of nutrients our soils and crops need.

Source: [DTE](#)

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**Q.8) With reference to Exercise Skylight, consider the following statements;**

1. The exercise aims to test combat readiness of armed forces in North Eastern States.
2. It is conducted by Indian Army.

**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

**Answer: B**

**Statement 1 is incorrect:** It aims to test the operational readiness and robustness of its satellite communication systems in the event of an attack by an adversary.

**Statement 2 is correct:** It is conducted by Indian Army.

Source: [The Hindu](#)

**Q.9) Enhanced Access and Service Excellence(EASE) programme is related to which of the following?**

- a) Governance initiatives in government hospitals.
- b) Increasing educational access in tribal areas
- c) Providing access to Public Sector Banks (PSBs)
- d) Improving access to public wifi facilities

**Answer: C**

Enhanced Access and Service Excellence(EASE) is a common reform agenda for Public Sector Banks (PSBs).

It is aimed at institutionalizing clean lending, better customer service, simplified and enhanced credit and robust governance and HR practices.

Source: [Business Standard](#)

**Q.10) With reference to National Register of Citizens, consider the following statements;**

1. The register was first prepared after the 1951 Census of India.
2. It has been updated only in Assam and Kerala.

**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

**Answer: A**

**Statement 1 is correct:** The register was first prepared after the 1951 Census of India

**Statement 2 is incorrect:** It has been updated in Assam only for now and the government plans to update it nationally as well.

Source: [The Hindu](#)

**PRELIMS**

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**Q.1) With reference to Chit Funds, consider the following statements:**

- 1) Chit Funds are unregulated in India.
- 2) Cost of borrowings under Chit Funds are decided under an agreement, at the beginning.

**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

**Ans) d**

**Statement 1 is incorrect.** Chit Funds are not unregulated in India. These are the legal entities, registered with and regulated by, the state governments under the Chit Funds Act of 1982. However, these funds are not regulated by RBI.

Statement 2 is incorrect. The cost of borrowing and the return to savers depend on the bidding process, it is uncertain, varies for each participant, and can be calculated only ex-post. It is calculated as the winning bid plus the commission of the chit fund intermediary, which is currently around 5% of the full lump-sum amount, divided by the number of participants.

**Q.2) Consider the following statements**

- 1) Mandal Commission was the first commission set up in the matter of Backward Classes.
- 2) At present, states and centre have different lists with respect to OBCs, while the same list for SCs and STs.

**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

**Ans) b**

Statement 1 is incorrect. The second Backward Classes Commission known as the Mandal Commission, gave its report in 1980.

Statement 2 is correct. Currently, for each state, there are two OBC lists — from the state and the Centre. The SCs and STs “with respect to any State or Union Territory” have only one list and one status at the state and central levels.

**Q.3) Which of the following statements is correct regarding 15<sup>th</sup> Finance Commission?**

- 1) It recommended share of states in the central taxes for the 2021-26 period to be 41%.
- 2) The share recommended by commission was more than the 14<sup>th</sup> Finance Commission's recommendation.

**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

**Ans) a**

Statement 1 is correct. The share of states in the central taxes for the 2021-26 period is recommended to be 41%, same as that for 2020-21.

Statement 2 is incorrect. The share is less than the 42% share recommended by the 14<sup>th</sup> Finance Commission for 2015-20 period.

**Q.4) Which one of the following does not include in the divisible pool for devolution of revenue to the states?**

- a) Cesses and surcharges
- b) Estate duties
- c) Union Excise duties
- d) Income tax

**Ans) a**

**Explanation:**

The share of states in Central taxes would differ from the FC recommendations since the latter applies to 'divisible pool' comprising of total central taxes excluding revenue from cesses and surcharges, cost of collection, and certain earmarked taxes.

**Q.5) Consider the following pairs,**

Famous arts/crafts	-	Associated States
1. Gulabi Meenakari	-	Uttar Pradesh
2. Dokra art	-	Bihar
3. Kullu Shawl	-	Arunachal Pradesh
4. Aranmula Kannadi	-	Kerala

**How many pairs given above are correctly matched?**

- a) Only one pair
- b) Only two pairs
- c) Only three pairs
- d) All four pairs

**Answer: B**

Famous arts/crafts	-	Associated States
1) Gulabi Meenakari	-	Uttar Pradesh
2) Dokra art	-	Chhattisgarh
3) Kullu Shawl	-	Himachal Pradesh
4) Aranmula Kannadi	-	Kerala



**Q.6) SMILE-75 Initiative is launched for which of the following objective?**

- To celebrate India's 75<sup>th</sup> Independence with socio-economically backward sections.
- To make cities/towns and municipal areas begging-free.
- To make India slum free before 2030.
- To create primary health centers in tribal areas.

**Answer: B**

SMILE 75 initiative was launched with the aim to make cities/towns and municipal areas begging-free and make a strategy for comprehensive rehabilitation of the persons engaged in the act of begging through the coordinated action of various stakeholders.

Source: [PIB](#)

**Q.7) Which of the following statements is/are true about Electromagnetic Field(EMF)?**

- Electromagnetic fields are a combination of invisible electric and magnetic fields of force.
- These fields are produced only by natural sources.
- Electromagnetic fields are present everywhere in the environment.

**Select the correct answer using the codes given below;**

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

**Answer: C**

Electromagnetic fields are a combination of invisible electric and magnetic fields of force. Electromagnetic fields are present everywhere in the environment but are invisible to the human eye.

**Natural Sources:** Electric fields are produced by the local build-up of electric charges in the atmosphere associated with thunderstorms. The earth's magnetic field causes a compass needle to orient in a North-South direction and is used by birds and fish for navigation.

**Human-made sources:** It includes medical equipment using static fields (e.g. MRI), electric appliances using low frequency electric and magnetic fields (50/60 Hz), and various wireless, telecommunications and broadcasting equipment using high radio frequency electromagnetic fields.

Source: [PIB](#)

**Q.8) With reference to Audio Visual Co-production Treaty, consider the following statements;**

- These are enabling documents which facilitate the co-production of films between both countries.
- India has signed audio-visual co-production treaties with more than one country.

**Which of the statements given above is/are correct?**

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

**Answer: C**

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**Statement 1 is correct:** These are enabling documents which facilitate the co-production of films between both countries.

**Statement 2 is correct:** India has so far signed 15 audio-visual co-production treaties with other countries.

Source: [The Hindu](#)

**Q.9) With reference to Endemic disease, consider the following statements;**

1. In endemic, there will be a constant presence and/or usual prevalence of a disease or infectious agent.
2. Endemic disease will present all over the world in all populations.

**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

**Answer: A**

**Statement 1 is correct:** The term endemic refers to the constant presence and/or usual prevalence of a disease or infectious agent in a population within a particular geographic area.

**Statement 2 is incorrect:** These diseases are present in a set population of people or geographic region of the world.

Source: [The Hindu](#)

**Q.10) With reference to Henipaviruses, consider the following statements;**

1. These are less harmful viruses that have a case fatality rate of less than 1.
2. Mojiang and the Ghanaian bat virus are a type of Henipaviruses.

**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

**Answer: B**

**Statement 1 is incorrect:** Henipaviruses belong to the family of paramyxoviruses. They can cause severe illness in animals and humans and are classified as biosafety level 4 (BSL4) pathogens with case fatality rates between 40-75%.

**Statement 2 is correct:** The types of Henipaviruses that had been identified till now include Hendra, Nipah, Cedar, Mojiang and the Ghanaian bat virus.

According to US CDS, the Cedar virus, Ghanaian bat virus and Mojiang virus are not known to cause human disease. But Hendra and Nipah infect humans and can cause fatal illness.

Source: [The Hindu](#)

**PRELIMS**

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**Q.1) which of the following is/are part of Market Infrastructure Institutions (MII)?**

1. Stock exchanges
2. Depositories
3. Mutual Fund distributors

**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 only

**Answer: A**

According to the Bimal Jalan Committee (2010), these institutions are systemically important for the country's financial development and serve as the infrastructure necessary for the securities market. For example, Stock exchanges, depositories and clearing houses.

**Q.2) With reference to co-location, consider the following statements:**

1. Co-location allows brokers to operate closer to their servers upon payment of additional fees.
2. Co-location increases latency while executing trade.

**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

**Answer: A**

Statement 1 is correct: Co-location allows brokers to operate closer to their servers upon payment of additional fees.

Statement 2 is incorrect: It helps brokers secure an advantage over others due to proximity to exchange servers as data transmission takes less time. Hence, colocation reduce latency, or delay in computing terms, while executing trades.

**Q.3) With reference to Karakattam, consider the following statements:**

1. It is a folk dance performed at festivals, conferences, roadshows and primarily at rain goddess festivals.
2. The dance is famous in regions around Karnataka and Andhra Pradesh.
3. The performers balance a pot on their head.

**Which of the statements given above is/are correct?**

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

**Answer: D**

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Statement 1 is correct: Karakattam is a form of folk dance performed at festivals, conferences, and roadshows and primarily at Mariamman (rain goddess) festivals.

Statement 2 is incorrect: Karakattam is mostly famous in Tamil Nadu, it's performed in different parts of Kerala as well.

Statement 3 is correct: Both men and women perform the dance on the muddy ground. The performers balance a pot on their head.

**Q.4) Hermetic Wiper was recently seen in the news. The term is related to which of the following?**

- a) New bird species found in Western Ghats
- b) Data-wiper malware detected on computers in Ukraine.
- c) New supercomputer of Meta
- d) New digital currency that has the potential to replace bitcoins

**Answer: B**

Ukraine has found that hundreds of its computers have been attacked by a data-wiper malware named Hermetic Wiper. It is a data-wiper malware that was detected on hundreds of computers in Ukraine.

This malware when downloaded can erase all the data on a device it targets in a manner that renders the data irretrievable.

The malware is also capable of attacking data recovery tools on a system and the rebooting system of a hard drive, making it difficult for the device to reboot into its operating system essentially making it inoperable.

**Q.5) Which of the following advantages are associated with 5 g technology?**

- 1. Enhance employment opportunities.
- 2. Low latency
- 3. Enhanced network coverage

**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 only

**Answer: D**

**Major advantages of 5G technology includes,**

**Low latency:** It is one of the most important features of 5G technology which is significant for autonomous driving and mission critical applications. 5G networks are capable of latency less than a millisecond. This help in logistics improvement and would reduce overall cost of goods and services.

**Employment generation:** 5G wireless technology will open greater opportunity for new device manufactures and application developers. New VoIP devices and smart devices will be introduced in the market and thus more job opportunities as well. This will help in inclusive growth reaping demographic dividend.

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Enhanced network coverage: Device-to-device communication techniques will further enhance network performance and support during limited access or absence of mobile networks. This will help in reducing digital gap in India.

Enhanced Security: 5G wireless technology is one the best solution for security surveillance due to higher bandwidth and unlicensed spectrum. It will enhance better coordination among various agencies.

Logistics and shipping: Logistic and shipping industry can make use of smart 5G technology for goods tracking, fleet management, centralized database management, staff scheduling and real-time delivery tracking and reporting.

**Q.6) With reference to Virtual and digital currencies, consider the following statements;**

1. Virtual currencies are regulated currencies.
2. Cryptocurrencies are digital currencies that use cryptography to secure and verify transactions in a network.
3. Digital currency is a form of currency that is available only in digital or electronic form.

**Select the correct answer using the codes given below;**

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

**Answer: B**

**Statement 1 is incorrect:** Virtual currencies are unregulated digital currencies controlled by developers or a founding organization consisting of various stakeholders involved in the process.

**Statement 2 is correct:** Cryptocurrencies are digital currencies that use cryptography to secure and verify transactions in a network.

**Statement 3 is correct:** Digital currency is a form of currency that is available only in digital or electronic form.

Source: [Business Standard](#)

**Q.7) With reference to Butterfly Mines, consider the following statements;**

1. The 'Butterfly mine' has earned a reputation for being particularly attractive to children.
2. These mines are difficult to detect because they are made of plastic and can evade metal detectors.

**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

**Answer: C**

**Statement 1 is correct:** The 'Butterfly mine' has earned a reputation for being particularly attractive to children because it looks like a coloured toy. It is very sensitive to touch and just the act of picking it up can set it off.

**Statement 2 is correct:** These mines are difficult to detect because they are made of plastic and can evade metal detectors.

Source: [Indian Express](#)

**Q.8) India's National Multidimensional Poverty Index (MPI) has been released by which of the following organisation?**

- a) National Sample Survey Organisation
- b) Central Statistical Organisation (CSO)
- c) NITI Aayog
- d) Ministry of Rural development

**Answer: C**

Niti Aayog has released India's first National MPI (multidimensional poverty index). The index is based on the findings of the fourth National Health Family Survey (2015-16).

This index calculated the poverty ratio on the basis of three dimensions of MPI– health, education, and standard of living — with each having a weighting of one-third in the index.

Source: [The Hindu](#)

**Q.9) With reference to Gold Exchange Traded Funds(ETFs), consider the following statements;**

- 1. They are passive investment instruments that are based on gold prices and invest in gold bullion.
- 2. Investors will invest more when there is a fall in gold prices.

**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

**Answer: A**

**Statement 1 is correct:** They are passive investment instruments that are based on gold prices and invest in gold bullion.

**Statement 2 is incorrect:** Gold Exchange Traded Funds(ETFs) witnessed a net outflow of Rs 457 crore in July as investors parked their money in other asset classes as part of their portfolio rebalancing strategy. The significant Gold ETFs outflows seem to have risen out of investors' expectations of a rising interest rate cycle leading to a fall in gold prices.

Source: [Indian Express](#)

**Q.10) With reference to Criminal Procedure (Identification) Act, 2022, consider the following statements;**

1. All the convicted persons must provide his/her biological samples under the Act without any exceptions.
2. The National Crime Records Bureau (NCRB) will be the repository of physical and biological samples, signatures and handwriting data.

**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

**Answer: B**

**Statement 1 is incorrect:** The Act states that except for those accused of offences committed against a woman or a child, or for any offence punishable with imprisonment for a period that is not less than seven years, a person accused of any other offence can refuse to allow the taking of his biological samples under the Act.

– Even if such data is collected from the accused, it can be destroyed from the records unless a magistrate in writing directs otherwise.

**Statement 2 is correct:** The National Crime Records Bureau (NCRB) will be the repository of physical and biological samples, signatures and handwriting data that can be preserved for at least 75 years.

Source: [The Hindu](#)

**PRELIMS**

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**Q.1) Agasthiyarmalai Elephant Reserve is located in which of the following state?**

- a) Kerala
- b) Tamil Nadu
- c) Maharashtra
- d) Goa

**Answer: B**

On World Elephant Day, the Union Environment Ministry has declared a new elephant reserve called Agasthiyarmalai Elephant Reserve. Agasthiyarmalai Elephant Reserve is located in Tamil Nadu.

Agasthiyarmalai will be the 5th elephant reserve in Tamil Nadu and the 32nd elephant reserve in India.

Source: [TOI](#)

**Q.2) With reference to Boundary Commissions for the partition of Punjab and Bengal, consider the following statements;**

- 1. Sir Cyril John Radcliffe headed both the commissions.
- 2. The boundary commissions of Punjab and Bengal included two nominees each from the Indian National Congress and Muslim League respectively.

**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

**Answer: C**

In 1947, Sir Cyril John Radcliffe, a British lawyer was made the Chairman of two boundary commissions of Punjab and Bengal. He was given the task to draw up the new borders of India and Pakistan.

The boundary commissions of Punjab and Bengal also included two nominees each from the Indian National Congress and Muslim League respectively.

Source: [Indian Express](#)

**Q.3) Exercise Udarashakti is a bilateral air force exercise between India and which of the following country?**

- a) Singapore
- b) Malaysia
- c) Myanmar
- d) Sri Lanka

**Answer: B**

It is a bilateral air force exercise between India and Malaysia.

**Purpose:** The exercise will give a chance to both countries to share and learn best practices and an opportunity for both to discuss mutual combat capabilities.



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– The exercise will witness different aerial combat exercises between the two air forces to augment security in the region and to help in strengthening defense cooperation between the two countries.

### Other Exercises between India and Malaysia

**Exercise Harimau Shakti:** It is a bilateral joint military exercise between India and Malaysia.

Source: [The Hindu](#)

### Q.4) Which of the following factor/s is/are responsible for increased rain in Northeastern India?

1. La Nina conditions in the Pacific
2. Positive Indian Ocean Dipole (IOD) in the Indian Ocean
3. Strong winds over Bay of Bengal

**Select the correct answer using the code given below:**

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

**Answer: C**

**Statement 1 is correct and 2 is incorrect:** The ongoing La Nina conditions in the Pacific, in combination with a negative Indian Ocean Dipole (IOD) in the Indian Ocean, has increased the intensity of the floods. This is because this condition strengthens the winds that blow from the southwest to the northeast (Southwesterlies) in the Bay of Bengal.

**Statement 3 is correct:** The winds over the Bay of Bengal have been exceptionally strong for a week. These strong winds carry a lot of moisture, dumping them as rains over Bangladesh and Northeast India.

### Q.5) Bhore Committee which was seen in news recently, is related to which of the following?

- a) Analyzing the impact of National Education Policy.
- b) Remodeling of health services in India.
- c) Enhancing India's bio diversity.
- d) Enlarging food subsidy and its allocation.

**Answer: B**

Bhore committee, 1946, also known as the Health Survey & Development Committee, was appointed in 1943 with Sir Joseph Bhore as its Chairman.

It made comprehensive recommendations for remodeling of health services in India. The report, submitted in 1946, had some important recommendations like:-

1. Integration of preventive and curative services of all administrative levels.
2. Development of Primary Health Centres in 2 stages: short and long term measures.

Source: [Indian Express](#)

**Q.6) With reference to Chronic Fatigue Syndrome, consider the following statements;**

1. It is a serious and debilitating disease that affects the nervous system, the immune system and the body's production of energy.
2. The disease is completely curable.

**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

**Answer: A**

**Statement 1 is correct:** Chronic Fatigue Syndrome is also known as myalgic encephalomyelitis (ME/CFS).

It is a serious and debilitating disease that affects the nervous system, the immune system and the body's production of energy.

**Statement 2 is incorrect:** As of yet, there is no specific cure or approved treatment. Instead, doctors recommend ways to deal with the symptoms of the disease such as 'pacing' in which patients learn to balance rest and activity to prevent crashes caused by exertion.

Source: [Indian Express](#)

**Q.7) With reference to the national flag, consider the following statements**

1. The flag must always be a rectangle rather than a square or any other shape.
2. A person can use the national flag as a portion of a costume or uniform.
3. A damaged flag can be burnt in private.

**Select the correct answer using the codes given below;**

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

**Answer: C**

**Statement 1 is correct:** The flag can be as big or small as one wants but the ratio of the length to the height (width) of the National Flag shall be 3:2. So, the flag must always be a rectangle rather than a square or any other shape.

**Statement 2 is incorrect:** A person is forbidden by law to use the national flag as a portion of a costume or uniform.

**Statement 3 is correct:** The flag should not be stored in a way that might dirty or damage it. In case the flag is damaged, the Flag Code instructs the person not to cast it aside or treat it disrespectfully but destroy it as a whole in private, preferably by burning or by any method consistent with the dignity of the flag.

Source: [Indian Express](#)

**Q.8) Which of the following subsidies are considered as positive externalities?**

1. Spending on Education by government.
2. Providing subsidised cooking gas.
3. Providing Televisions to homes.

**Select the correct answer using the codes given below;**

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

**Answer: C**

Economists call few freebies positive externalities; i.e. they have a public utility that goes beyond the benefit to the individual user.

For instance, **a)** spending on Education, welfare payments, and highways all are called as positive externalities, **b)** Mid-day meals in schools improved school attendance and enhanced child health and reduced the birth rate dramatically. **c)** Other schemes and programs such as the construction of free lavatories, providing subsidised cooking gas.

Source: [Business Standard](#)

**Q.9) With reference to Partners in the Blue Pacific(PBP) initiative, consider the following statements;**

1. It is an “informal mechanism” to support Pacific islands and to boost diplomatic, and economic ties in the pacific region.
2. It was launched by Russia and China.

**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

**Answer: A**

**Statement 1 is correct:** It is an “informal mechanism” to support Pacific islands and to boost diplomatic, and economic ties in the pacific region.

**Statement 2 is incorrect:** It was launched by US, Australia, New Zealand, Japan and the United Kingdom

Source: Indian Expres

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**Q.10) With reference to India's Research and Development spending, consider the following statements;**

1. India's R&D spending is increased in the past decade with respect to India's GDP.
2. India has the lowest gross domestic expenditure on R&D (GERD) among BRICS countries.

**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

**Answer: B**

**Statement 1 is incorrect:** India's R&D spending has decreased from 0.8% of GDP in 2008-09 to 0.7% in 2017-18.

**Statement 2 is correct:** India has the lowest gross domestic expenditure on R&D (GERD) among BRICS countries; GERD for Brazil, Russia, China, and South Africa are 1.2 per cent, 1.1 per cent, over 2per cent, and 0.8 per cent, respectively. The global average is 1.8 per cent.

**Source:** [Business Standard](#)

**PRELIMS**

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**Q.1) Which of the following factors can contribute in making India a developed nation?**

- 1) Increasing the received price of farm products for farmers.
- 2) Speedy dispute redressal process

**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

**Ans) b**

**Statement 1 is incorrect.** India's route to developed country status requires people to move out of farms much faster. And that can only happen if farming is reformed and manufacturing flourishes.

Statement 2 is correct. Indian courts' performance in contract enforcement is among the worst in the world. NCLT, critical to the bankruptcy process, had 30 vacancies in mid-July. There are vacancies and huge backlogs in the entire judicial system that dilute the efficacy of most reforms, especially when judges also wade into policy, usually creating more problems. If these persist, India's economy will get bigger but its economic status won't change.

**Q.2) Consider the following statements regarding Global Gender Gap (GGG) Index?**

- 1) India's ranking in the index has been consistently improving in the last 5 years.
- 2) In 2022, India's performance has been improved in all indicators compared to 2021.

**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

**Ans) b**

**Statement 1 is incorrect.**

In 2018, India was ranked 108

2019, report not found

In 2020, India was ranked 112

In 2021, India was ranked 140

In 2022, India is ranked 135.

Statement 2 is correct.

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### Q.3) Consider the following statements regarding North Eastern Council?

- 1) It is the nodal agency for the economic and social development of the North Eastern Region
- 2) The North Eastern Council was constituted in 1971 by an Act of Parliament.

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

Ans) c

**Statement 1 is correct.** The North Eastern Council is the nodal agency for the economic and social development of the North Eastern Region which consists of the eight States of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura.

Statement 2 is correct. The North Eastern Council was constituted in 1971 by an Act of Parliament. The constitution of the Council has marked the beginning of a new chapter of concerted and planned endeavour for the rapid development of the Region.

### Q.6) With reference to talc, consider the following statements;

1. It is the softest known mineral and is mined from underground deposits.
2. It is used in a variety of cosmetic and personal care products like baby powder, lipstick, eyeshadow and foundation.
3. Pure talc can cause lung cancer, ovarian cancer and other health conditions.

Which of the statements given above is/are correct?

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

Answer: C

**Statement 1 is correct:** It is the softest known mineral and is mined from underground deposits.

**Statement 2 is correct:** It is used in a variety of cosmetic and personal care products like baby powder, lipstick, eyeshadow and foundation.

**Statement 3 is incorrect:** Asbestos, the name for another group of naturally occurring silicate minerals, can also be found near talc deposits.

According to the FDA, there is the potential for contamination of talc with asbestos. Asbestos has been used in construction and manufacturing and is known to cause lung cancer, ovarian cancer, mesothelioma and other health conditions.

Source: [Indian Express](#)

**Q.4) Consider the following statements regarding Lactose Intolerance?**

- 1) A person who is lactose intolerant lacks the gene to break down lactose.
- 2) Lactose is a sugar present in milk that cannot be naturally broken down in the stomach

**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

**Ans) c**

**Statement 1 is correct.** Studies on the global prevalence of this mutation suggest that 65% of humanity is lactose-intolerant, meaning they lack the gene to break down lactose into adulthood. Statement 2 is correct. Beyond the age of five, lactose, a sugar present in milk, cannot be naturally broken down in the stomach and this remains in the gut causing flatulence, acidity and diarrhoea.

[Base Article](#)

**Q.5) Consider the following statements regarding Langya virus**

- 1) It is a new zoonotic virus
- 2) It is related to henipavirus family

**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

**Ans) c**

Statement 1 is correct. A new zoonotic virus that has evolved to infect humans was identified in China in August.

Statement 2 is correct. Langya virus' pathogen belongs to the henipavirus family, closely associated with Nipah and Hendra viruses, and was noticed to cause fever, and respiratory symptoms among 35 people in China since 2018.

**Q.7) Consider the following pairs,**

<b>Wetlands</b>	-	<b>Associated States</b>
1. Tampara Lake	-	Odisha
2. Yashwant Sagar	-	Madhya Pradesh
3. Suchindrum Theroor	-	Karnataka
4. Hygam Wetland	-	Jammu and Kashmir

**How many pairs given above are correctly matched?**

- a) Only one pair
- b) Only two pairs
- c) Only three pairs
- d) All four pairs

**Answer: C**

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<b>Wetlands</b>	-	<b>Associated States</b>
1. Tampara Lake	-	Odisha
2. Yashwant Sagar	-	Madhya Pradesh
3. Suchindrum Theroor	-	Tamil Nadu
4. Hygam Wetland	-	Jammu and Kashmir

Source: [PIB](#)

**Q.8) Nagorno-Karabakh is a disputed region between which of the following countries?**

- a) Turkey and Azerbaijan
- b) Armenia and Azerbaijan
- c) Armenia and Turkey
- d) France and Italy

**Answer: B**

The conflict between Armenia and Azerbaijan over Nagorno-Karabakh has been at the centre of three major wars and multiple clashes for decades. The recent flare-up began after Azerbaijan claimed that it had captured the territory in Karabakh in retaliatory action.

Source: [The Hindu](#)

**Q.9) With reference to DigiYatra initiative, consider the following statements;**

- 1. Under it, Passenger face would act as documents, like ID proof, Vaccine proof and also act as a boarding pass.
- 2. It is implemented by Directorate General of Civil Aviation.

**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

**Answer: A**

**Statement 1 is correct:** The 'DigiYatra' is a Biometric Enabled Seamless Travel experience(BEST) based on Facial Recognition Technology. It aims to provide a paperless and seamless travel experience to the passengers.

The initiative will make the boarding process significantly faster and more seamless as each passenger would need less than three seconds at every touchpoint. Their face would act as their documents, like ID proof, Vaccine proof and also act as a boarding pass.

**Statement 2 is incorrect:** It is implemented by the DigiYatra Foundation — a joint-venture company registered under the Companies Act, 2013.

Source: [Indian Express](#)



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**Q.10) With reference to Viloma Kavya,** consider the following statements;

1. It is a famous sanskrit book written by Kalidasa.
2. It comprises verses in praise of Lord Rama when read from one side and, when read backwards, it transformed into verses dedicated to Lord Krishna.

**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

**Answer: B**

**Statement 1 is incorrect:** Shriram Velankar was a Sanskrit poet of eminence who had been conferred the President's Award for Sanskrit in 1996 He wrote the book Viloma Kavya.

**Statement 2 is correct:** The book is considered a literary masterpiece because it comprises verses in praise of Lord Rama when read from one side and, when read backwards, it transformed into verses dedicated to Lord Krishna.

**Source:** [Indian Express](#)

**PRELIMS**

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**Q.1) Consider the following statements regarding Aspirational Districts Programme (ADP)**

- 1) It is focussed on selecting the best performing districts in manufacturing high value products.
- 2) The program promotes competition among districts.
- 3) Districts will be ranked on the basis of Key Performance Indicators (KPIs)

**Select the correct answer using the codes given below**

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

**Ans) b**

Statement 1 is incorrect. The Aspirational Districts programme aims to quickly and effectively transform 112 most under-developed districts across the country.

Statement 2 is correct. The broad contours of the programme are Convergence (of Central & State Schemes), Collaboration (of Central, State level 'Prabhari' Officers & District Collectors), and Competition among districts through monthly delta ranking; all driven by a mass movement.

Statement 3 is correct. With States as the main drivers, this program focuses on the strength of each district, identifying low-hanging fruits for immediate improvement and measuring progress by ranking districts on a monthly basis. The ranking is based on the incremental progress made across 49 Key Performance Indicators (KPIs) under 5 broad socio-economic themes - Health & Nutrition, Education, Agriculture & Water Resources, Financial Inclusion & Skill Development and Infrastructure.

**Q.2) Consider the following statements regarding F-INSAS Programme**

- 1) It is focussed on developing indigenous automatic weapons for the army.
- 2) Nipun mines are anti-personnel and anti-tank mines.

**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

**Ans) d**

Statement 1 is incorrect. F-INSAS is not just focussed on weapons. It is aimed at increasing the operational capability of the soldier. As part of the project, soldiers are being equipped with modern systems that are lightweight, all-weather-all-terrain, cost-effective and low maintenance. It includes body armours and other equipment as well like Helmet and visor, Clothing, Weapons and Accessories.

Statement 2 is incorrect. Nipun is and is designed and developed indigenously. These mines act as the first line of defence against the infiltrators and advancing enemy infantry. Thus, these are Anti-Personnel Mines.

**Q.3) Consider the following statement**

- 1) Prison is a concurrent subject.
- 2) State government are empowered to remit sentences under Code of Criminal Procedure (CrPC).

**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

**Ans) b**

Statement 1 is incorrect. Prison is a state subject.

Statement 2 is correct. Under Articles 72 and 161 of the Constitution, the President and Governors have the power to pardon, and to suspend, remit, or commute a sentence passed by the courts. Also, since prisons is a state subject, state governments have powers under Section 432 of the Code of Criminal Procedure (CrPC) to remit sentences.

**Q.4) Recently, FIFA, suspended the country's top administrative organisation for football AIFF, which of the following statements are correct regarding its possible impacts?**

- 1) Men football team will be banned from any international match, but women and under 15 football team will still be able to play the international match.
- 2) AIFF officials cannot take part in international courses and development programs related to football.

**Select the answer using the codes given below**

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

**Ans) b**

**Statement 1 is incorrect.** The suspension means, firstly, no international football — and this applies to all national teams, across all age groups. It also applies to both men's and women's football, and to all club teams in India.

Statement 2 is correct. The suspension also impacts international transfers, as well as any courses or developmental programs that AIFF officials could, or were taking part in. This in effect means a total ban on all football-related activities outside India.

**Q.5) Which of the following statements is incorrect regarding ethanol blending?**

- a) It can reduce stubble burning
- b) It reduces the emission of nitrous oxide
- c) It reduces the emission of carbon dioxide
- d) Sugarcane is the cheapest source of ethanol

**Ans: B**

By using the left-over residue from rice harvests to make ethanol, stubble burning will also reduce.

Ethanol burns completely emitting nil carbon dioxide. By using the left-over residue from rice harvests to make ethanol, stubble burning will also reduce. The 2G ethanol project inaugurated last week will reduce greenhouse gases equivalent to about three lakh tonnes of CO<sub>2</sub> emissions

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per annum, which is the same as replacing almost 63,000 cars annually on our roads. However, it does not reduce the emission of another key pollutant — nitrous oxide.

**Q.6) Paalan 1000 Campaign which is in news recently, is focused on which of the following?**

- a) It focuses on the primary education of children upto class V.
- b) It focuses on breastfeeding of children in the first one year of their life.
- c) It focuses on the cognitive development of children in the first two years of their life.
- d) It focuses on the child's physical development through enough physical activities on school and home.

**Answer: C**

Paalan 1000 campaign focuses on the cognitive development of children in the first two years of their life.

**Features:** The app will provide practical advice to caregivers on what they can do in their everyday routine and will help clear doubts.

– The app combines coaching for parents, families and other caregivers with services designed to meet the families' basic needs.

**Significance:** The campaign is aligned with the mission of the Rashtriya Bal Swasthya Karyakram(RBSK) which emphasizes on responsive care and focused interventions during the first 1,000 days of a child.

**Q.7) Which of the following is/are the contributions of Council of Scientific and Industrial Research?**

- 1. Development of indelible ink made up of silver nitrate to address various challenges in voting.
- 2. Development of agrochemicals during the green revolution.
- 3. Developed technologies to convert buffalo milk into powder during food crisis.

**Select the correct answer using the codes given below;**

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

**Answer: D**

The CSIR's National Physical Laboratory developed the **indelible ink made up of silver nitrate** to address various challenges in voting.

**During the Green Revolution:** The CSIR helped in the development of agrochemicals and the mechanisation of agriculture. Two public sector companies were founded, post-Independence, based on technologies developed in the CSIR's laboratories.

Indigenous development of the Swaraj tractor at the CSIR-Central Mechanical Engineering Research Institute (CMERI), led to the formation of Punjab Tractors Ltd. in 1970.

**Dairy sector:** In the 1950s, when solving the infant food problem, the CSIR successfully developed technologies to convert buffalo milk into powder and commercialised it with the help of Amul Industries.

Source: [The Hindu](#)

**Q.8) With reference to Manthan Platform, consider the following statements;**

1. Damage to the cornea is one of the leading causes of blindness across the world.
2. The cornea is the innermost layer at the back of the eye.

**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

**Answer: A**

**Statement 1 is correct:** Damage to the cornea is one of the leading causes of blindness across the world leaving approximately 12.7 million people blind.

**Statement 2 is incorrect:** The cornea is the clear outer layer at the front of the eye. The cornea helps the eye to focus light so that one can see clearly.

Source: [Indian Express](#)

**Q.9) Which of the following is/are considered as a Second-generation ethanol?**

1. Rice husks
2. Sugarbeets
3. Wheat straw
4. Algae
5. Sugarcane bagasse

**Select the correct answer using the codes given below;**

- a) 1 and 3 only
- b) 1, 2 and 3 only
- c) 1, 3 and 5 only
- d) 1, 2 and 4 only

**Answer: C**

In first-generation ethanol or 1G, raw materials used are food sources like sugarcane, seeds, and Sugarbeets.

Second-generation ethanol or 2G uses farm waste after harvests like rice husks, corn cobs, wheat straw and sugarcane bagasse.

Third-generation ethanol uses algae.

Source: [The Hindu](#)

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**Q.10) With reference to Manthan Platform, consider the following statements;**

1. The platform aims to promote collaboration between various health service providers.
2. The platform will facilitate knowledge transfers and interactions.

**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

**Answer: B**

**Statement 1 is incorrect:** It is a platform to promote collaboration at scale between industry and the scientific research and development ecosystem to help meet India's scientific missions and goals in alignment with the UN defined Sustainable Development Goals(SDG) charter.

**Statement 2 is correct:** The platform will facilitate knowledge transfers and interactions through information exchange sessions, exhibitions and events to develop a framework for future science, innovation, and technology-led growth.

Source: [PIB](#)

**PRELIMS**

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**Q.1) Equator passes through which of the following South East Asian countries?**

1. Malaysia
2. Indonesia
3. Philippines

**Which of the statements given above is/are correct?**

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

**Answer- d**

Equator passes through only one South east Asian country that is Indonesia.

**Q.2) Which of the following statements best describes “Participatory democracy”?**

- a) It is a model of democracy in which no one group dominates politics and organized groups compete with each other to influence policy.
- b) It is a model of democracy in which a small number of people, usually those who are wealthy and well-educated, influence political decision making.
- c) It is a model of democracy in which citizens have the power to decide directly on policy and politicians are responsible for implementing those policy decisions.
- d) It is a model of democracy in which citizens are directly responsible for making policy decisions.

**Ans - c**

Pluralist democracy is a model of democracy in which no one group dominates politics and organized groups compete with each other to influence policy.

Elite democracy is a model of democracy in which a small number of people, usually those who are wealthy and well-educated, influence political decision making.

Participatory democracy is not the same as direct democracy, in which citizens are directly responsible for making policy decisions.

**Q.3) Consider the following pairs:**

- Wetland - State/UT
1. Wular lake - Jammu and Kashmir
  2. Asan barrage - Assam
  3. Lonar lake - Telangana

**Which of the pairs given above is/are correctly matched?**

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

**Answer-a**

Lonar lake is in Maharashtra, It is the only crater lake in the country formed by the meteorite impact.

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Wular lake, the largest freshwater lake in India with extensive marshes of emergent and floating vegetation is in J and k Asan Barrage is in Uttarakhand.

### Q.4) With reference to the Waves, consider the following statements:

1. Waves transfer energy and the size of a wave depends on the amount of energy that it carries.
2. Waves produce erosional formations like cliffs, wave cut platforms, sea arches.
3. Breakwaters and sea walls are structures that increase the intensity of waves.

#### Which of the statements given above are correct?

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

#### Answer-a

Waves are caused by wind on the surface of the water that creates friction between the air and the water. Other waves are caused by abrupt disruptions in the ocean or the movement of tides. Ocean waves do not actually cause the water to move but are instead the movement of energy through the water with very little movement of the actual water. Waves transfer energy and the size of a wave and the distance it travels depends on the amount of energy that it carries. The energy of waves produces erosional formations like cliffs, wave cut platforms, sea arches, and sea stacks.

When waves reach the shore, deposits like beaches, spits, and barrier islands form in certain areas. Groynes, jetties, breakwaters, and sea walls are structures humans build to protect the shore from the erosion of breaking waves.

### Q.5) What is/are the consequences of high Out of Pocket Expenditure on health?

1. It can lead to an increased level of poverty.
2. It can reduce the life expectancy of the population.
3. It is directly proportional to public health expenditure.

#### Which of the statements given above is/are correct?

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

#### Answer-c

Health of a nation depends critically on its citizens having access to an equitable, affordable and accountable healthcare system. The Out of Pocket Expenditure (OOPE) as a share of total health expenditure of households drops precipitously when public health expenditure increases.

OOPE for health increases the risk of vulnerable groups slipping into poverty because of catastrophic health expenditure. The life expectancy in a country correlates positively with per capita public health expenditure.



## 10 PM Compilation for the Month of August, 2022

**Q.6) With reference to All India Service officers, consider the following statements;**

1. Suspension of an AIS officer from the service by a State government will have to be ratified by the Centre before the end of three months.
2. Department of Personnel and Training (DoPT) is the cadre controlling authority of all the AIS officers.
3. Before any officer of the AIS is called for deputation to the Centre, his or her concurrence is required.

**Select the correct answer using the codes given below;**

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

**Answer: C**

**Statement 1 is correct:** Suspension of an officer from the service by a State government will have to be ratified by the Centre before the end of three months.

**Statement 2 is incorrect:** Department of Personnel and Training (DoPT) is the cadre controlling authority of IAS officers. The same role is played by the Police Division in the Ministry of Home Affairs (MHA) and the Ministry of Environment with respect to the IPS and the IFoS Officers respectively.

**Statement 3 is correct:** Before any officer of the AIS is called for deputation to the Centre, his or her concurrence is required. Further, the officers have to get a no-objection clearance from the State government for Central deputation

Source: [The Hindu](#)

**Q.7) With reference to Bal Aadhar, consider the following statements;**

1. A facial image of a child is taken instead of fingerprint for enrolment.
2. It is a blue-coloured variant of the Aadhaar Card which is issued for children below the age of 5 years.

**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

**Answer: C**

**Statement 1 is correct:** A facial image of a child is taken instead of fingerprint for enrolment.

**Statement 2 is correct:** It is a blue-coloured variant of the Aadhaar Card which is issued for children below the age of 5 years.

Source: [Hindustan Times](#)

**Q.8) Lake Garda, which was in the news recently, is located in which of the following country?**

- a) Canada
- b) South Africa
- c) Italy
- d) Australia

**Answer: C**

Lake Garda is also known as Benaco. It is the largest lake in Italy. Italy's worst drought in decades has reduced Lake Garda to near its lowest level ever recorded.

Source: [VOA](#)

**Q.9) With reference to Ice-albedo feedback, consider the following statements;**

- 1. Sea ice and snow have a higher albedo than land and water.
- 2. Melting of sea ice will make the ocean less capable of absorbing solar radiation.

**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

**Answer: A**

**Statement 1 is correct:** Sea ice and snow have high albedo, implying that they are capable of reflecting most of the solar radiation compared to water and air.

**Statement 2 is incorrect:** Global warming is resulting in diminishing sea ice. As the sea ice melts, the Arctic Ocean will be more capable of absorbing solar radiation.

Source: [The Hindu](#)

**Q.10) With reference to Traditional Knowledge Digital Library (TKDL), consider the following statements;**

- 1. The TKDL provides information in only in the scheduled languages of India.
- 2. The TKDL prevents the inaccurate grant of patents.

**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

**Answer: B**

**Statement 1 is incorrect:** The TKDL currently contains information from existing literature related to Indian Systems of Medicine (ISM) such as Ayurveda, Unani, Siddha, Sowa Rigpa and Yoga.

The information is documented in a digitized format in five international languages which are English, German, French, Japanese and Spanish.

**Statement 2 is correct:** TKDL provides information in languages and formats understandable by patent examiners at Patent Offices worldwide, so as to prevent the erroneous grant of patents.

Source: [PIB](#)

**PRELIMS**

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**Q.1) Consider the following statements regarding Web 3.0**

- 1) It is a blockchain technology-based framework.
- 2) It will be a centralized system, controlled and monitored by an expert authority.

**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

**Ans) a**

Statement 1 is correct. Web 3.0 powered by blockchain technology can really be helpful in many ways. Using blockchain technology the speed of transactions can improve to astonishing levels. From 7 transactions per second (TPS) with Bitcoin in the initial days to 50000 TPS with Solana today, blockchain technology can really transform the course of the future of the internet and how we are accustomed to using it.

Statement 2 is incorrect. Web 3.0 refers to a new, improved, and democratized, internet ecosystem which will be free from any sort of central authority.

**Q.2) Which of the following will increase the liability of the government?**

1. Capital expenditure
2. Salaries of employees
3. Borrowings by PSUs

**Select the correct answer from the codes given below:**

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

**Answer: c**

- Borrowings by PSUs would increase the liabilities of the government.
- Capital expenditure creates assets for the government and causes reduction in liabilities for the government.
- Unlike capital expenditure, revenue expenditure is one that neither creates assets nor reduces any liability of the government.
- Salaries of employees, interest payment on past debt, subsidies, pension, etc, fall under the category of revenue expenditure.

**Q.3) With reference to VINBAX, consider the following statements;**

1. It is a bilateral military exercise between India and Vietnam.
2. The exercise has been conducted alternatively in both countries since 2010.

**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

**Answer: A**

**Statement 1 is correct:** It is a bilateral military exercise between India and Vietnam.

**Statement 2 is incorrect:** The 2022 edition is the first time ever that the Vietnam People's Army (VPA) was undertaking a Field Training Exercise with any foreign Army. The fact that Vietnam chose India for this speaks volumes about the value the two countries place on their mutual relationship.

Source: [PIB](#)

**Q.4) Consider the following statements**

- 1) It is a national park situated in the Indian state of Rajasthan.
- 2) The Chinkara or Indian Gazelle is a common antelope of this region.
- 3) The Great Indian Bustard is found here in relatively fair numbers.

**Which of the following National Park is described in the statements above?**

- a) Bandipur National Park
- b) Dudhwa National Park
- c) Hemis National Park
- d) Desert National Park

**Ans) D**

Source: [The Hindu](#)

**Q.5) Consider the following statements regarding Tilapia Fish**

- 1) The tilapia is considered as "aquatic chicken" due to its quick growth and low maintenance cultivation.
- 2) Tilapia is one of the most productive and internationally traded food fish in the world.

**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

**Answer: C**

'Tilapia' has emerged to be one of the most productive and internationally traded food fish in the world.

The culture of tilapia has become commercially popular in many parts of the world and fishery experts have dubbed the tilapia as "aquatic chicken" due to its quick growth and low maintenance cultivation.

Source: [PIB](#)

**Q.6) With reference to Microplastics, consider the following statements;**

1. These are solid plastic particles of less than one micrometer in their largest dimension.
2. Microplastics reduces the growth and reproductive output in marine animals.

**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**

**Answer: B**

**Statement 1 is incorrect:** Microplastics are solid plastic particles of less than one millimeter in their largest dimension.

These are used in cosmetics and personal care products, industrial scrubbers which are used for aggressive blast cleaning, microfibers used in textiles and virgin resin pellets used in plastic manufacturing processes.

**Statement 2 is correct:** Microplastics damage aquatic creatures including turtles and birds. It blocks digestive tracts, and alters feeding behavior. Subsequently, it reduces the growth and reproductive output in marine animals.

**Q.7) Which of the following statements is/are true about Electromagnetic Field(EMF)?**

1. Electromagnetic fields are a combination of invisible electric and magnetic fields of force.
2. These fields are produced only by natural sources.
3. Electromagnetic fields are present everywhere in the environment.

**Select the correct answer using the codes given below;**

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

**Answer: C**

Electromagnetic fields are a combination of invisible electric and magnetic fields of force.

Electromagnetic fields are present everywhere in the environment but are invisible to the human eye.

**Natural Sources:** Electric fields are produced by the local build-up of electric charges in the atmosphere associated with thunderstorms. The earth's magnetic field causes a compass needle to orient in a North-South direction and is used by birds and fish for navigation.

**Human-made sources:** It includes medical equipment using static fields (e.g. MRI), electric appliances using low frequency electric and magnetic fields (50/60 Hz), and various wireless, telecommunications and broadcasting equipment using high radio frequency electromagnetic fields.

**Q.8) Recently which of the following state has been declared First 'Har Ghar Jal' Certified State?**

- a) Kerala
- b) Tamil Nadu
- c) Goa
- d) Gujarat

**Answer: C**

Goa and Dadra & Nagar Haveli and Daman & Diu (D&NH and D&D) became the first 'Har Ghar Jal' certified State and UT in the country respectively.

Source: [PIB](#)

**Q.9) With reference to Tasmanian Tiger, consider the following statements;**

1. It is listed as Critically Endangered under IUCN Red List.
2. It was the only animal in the Thylacinidae family to survive in modern times.

**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

**Answer: B**

**Statement 1 is incorrect:** It was considered Extinct. The last Tasmanian tiger died at Hobart Zoo in 1936.

**Statement 2 is correct:** It was the only animal in the Thylacinidae family to survive in modern times.

Source: [Indian Express](#)

**Q.10) With reference to resurrection biology, consider the following statements;**

1. It is the method of creating a species that went extinct or is endangered, in order to revitalize ecological diversity.
2. So far, this technology has not been used anywhere in the world.

**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

**Answer: A**

**Statement 1 is correct:** De-extinction or resurrection biology is the method of creating a species that went extinct or is endangered, in order to revitalize ecological diversity and balance shattered due to reasons ranging from biodiversity loss to climate change.

**Statement 2 is incorrect:** The Pyrenean ibex, a subspecies of Spanish ibex was one of the first extinct animals that have been resurrected using somatic cell nuclear transfer(SCNT), even though the baby Ibex died minutes after its birth from a lung defect.

Source: [Indian Express](#)

**PRELIMS**

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**Q.1) Mudhol hounds, recently seen in news, are indigenous to which of the following states of India?**

- a) Panjab
- b) Andhra Pradesh
- c) Tamil Nadu
- d) Karnataka

**Ans) d**

Mudhol hounds, a breed of hunting dogs native to north Karnataka, could be inducted into the Special Protection Group (SPG), the elite force protecting the Prime Minister of India.

Base article

**Q.2) Recently, released Draft Indian Ports Bill, 2022, has been released to fulfill which of the following objectives?**

- 1) To ensure the prevention of pollution in ports
- 2) To increase the trade volume from Indian ports 10-fold in next 10 years.

**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

**Ans) a**

The draft IP Bill 2022 seeks to repeal and replace the existing 1908 Act. The primary objectives of the proposed bill are four-fold:

- 1. promote integrated planning between States inter-se and Centre-States through a purely consultative and recommendatory framework;
- 2. ensure prevention of pollution measures for all ports in India while incorporating India's obligations under international treaties;
- 3. address lacunae in the dispute resolution framework required for burgeoning ports sector;
- 4. usher-in transparency and cooperation in development and other aspects through use of data.

**Q.3) Consider the following statements regarding draft international pandemic treaty:**

- 1) Treaty was proposed at World Health Assembly (WHA).
- 2) It proposes protection from pandemics based on equity and human rights.

**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

**Ans) c**

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Statement 1 is correct. The genesis of the treaty was at the second special session of the World Health Assembly (WHA) held in December 2021, which formally launched the process for the development of the historical global accord.

The vision of the draft is to protect from consequences of pandemic based on "equity, human rights and solidarity". It talked about achieving universal health coverage, enhancing local production of medical resources, promoting genetic sequence monitoring and data sharing as well as recognising socio-economic impacts of such crises.

### Q.4) Which of the following statements is/are correct?

- 1) Insects weigh as much as all the other species put together.
- 2) Insects are only useful for the environment in the presence of birds and other mammals.
- 3) Beetles are the largest group of all insects.

Select the correct answer using the codes given below

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

### Ans) b

Statement 1 is correct. Insects also outnumber all other species on Earth — of the million and a half-known organisms on the planet, over a million are insects. They weigh as much as all the other species put together — they are the majority of Earth's biomass.

Statement 2 is incorrect. Insects are the principal denizens of Earth because of their key functions and they are the essential intermediaries between plants and all the vertebrates that depend on these. You could take away all the birds and mammals but Earth would still have productive crops as long as there are insects — they are the primary engineers of our planet.

Statement 3 is correct. Beetles are the largest group of all insects — about one of every four animals is a beetle as are around 30% of all insects

### Q.5) Which of the following statements is correct regarding Great Oxidation Event?

- 1) The event was triggered by blue-green algae.
- 2) The oxidation was triggered first in the ocean.

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

### Ans) b

Statement 1 is incorrect. Cyanobacteria possessed the machinery to utilize water as a fuel source by oxidizing it. More significantly, the by-product of photosynthesis happened to be oxygen.

Statement 2 is correct. The levels of oxygen released into the seawater by cyanobacteria gradually increased over time, and over a span of 200-300 million years, oxygen was produced at a faster rate than it could react with other elements or get sequestered by minerals. The oxygen released by cyanobacteria steadily accumulated over vast swathes of the ocean and oxygenated the water. Gradually, the accumulated oxygen started escaping into the atmosphere.



**Q.6) Maurice Gwyer Committee was recently seen in news, the committee is related to which of the following?**

- Establishment of 4 year Under Graduate courses in India
- Establishment of National Museum in India
- Suggest the government to provide Universal Health Coverage
- Formulation of Artificial Neural Networks based solutions for societal challenges

**Answer: B**

National Museum was established in 1949. It holds a variety of articles ranging from the pre-historic era to modern works of art.

**Origin:** The blueprint for establishing the National Museum was prepared by the Maurice Gwyer Committee in May 1946.

Ministry of Culture is the Nodal Ministry of National Museum. It is located in New Delhi.

Source: [PIB](#)

**Q.7) With reference to remission or premature release of convicts, consider the following statements;**

- According to the Code of Criminal Procedure (CrPC), life sentenced convicts have to undergo a minimum of 14 years of actual imprisonment before remission/premature release.
- States can exercise the power of remission arbitrarily without Judicial Review.

**Which of the statements given above is/are correct?**

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

**Answer: A**

**Statement 1 is correct:** The Code of Criminal Procedure (CrPC) mentions that life convicts have to undergo a minimum of 14 years of actual imprisonment before they can be considered for remission/premature release.

**Statement 2 is incorrect:** The Supreme Court has held that states cannot exercise the power of remission arbitrarily, and must follow due process.

In 'Laxman Naskar v. Union of India'(2000) the SC laid down five grounds on which remission is considered: (a) Whether the offence is an individual act of crime that does not affect society; (b) Whether there is a chance of the crime being repeated in future; (c) Whether the convict has lost the potentiality to commit the crime; (d) Whether any purpose is being served in keeping the convict in prison; and (e) Socio-economic conditions of the convict's family.

Source: [The Hindu](#)

**Q.8) With reference to NIDAAN portal, consider the following statements;**

- It is a newly developed portal for controlling black money.
- It was developed by Narcotics Control Bureau(NCB).

**Which of the statements given above is/are correct?**

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

**Answer: B**

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**Statement 1 is incorrect:** NIDAAN stands for National Integrated Database on Arrested Narco-offenders. It is a first-of-its-kind portal for all narcotics offender-related data.

**Statement 2 is correct:** It was developed by Narcotics Control Bureau(NCB).

Source: [Business Standard](#)

**Q.9) With reference to Super Vasuki, consider the following statements;**

1. It is the latest freight train of Indian Railways.
2. It is the longest and heaviest freight train that the Railways have ever operated..

**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

**Answer: C**

The Super Vasuki freight train is 3.5 km long. This is the longest and heaviest freight train that the Railways have ever operated.

Named After: The train gets its name from Vasuki, the Hindu god of serpents. Shiva's snake, Vasuki, is portrayed as being around his neck.

The train was formed by amalgamating five rakes of goods trains as one unit. The train takes about four minutes to cross a station.

Source: [Economic Times](#)

**Q.10) With reference to Snailfish, consider the following statements;**

1. They are found only in Antarctica and Arctic region.
2. The Snailfish releases biofluorescence, which allows it to glow green and red in the dark arctic waters.
3. They have 'antifreeze' proteins in their bloodstream.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Statement 1 is incorrect:** They are found all over the world, including in Antarctica.

**Statement 2 is correct:** The Snailfish releases biofluorescence, which allows it to glow green and red in the dark arctic waters.

**Statement 3 is correct:** Snailfish found on an iceberg habitat in Greenland can survive in icy Arctic waters due to the presence of 'antifreeze' proteins in their bloodstream.

This extraordinary feature, which is rare among sea organisms, allows snailfish to prevent ice crystals from accumulating in their cells and body fluid.

Source: [DTE](#)

**PRELIMS**

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**Q.1) As per the latest UN Population reports, India's population is likely to be 1.66 billion by 2050. The biggest challenge will be feeding the population. With reference to the statement, which of the following options can help in resolving the issue of feeding the population?**

- 1) climate-resilient agriculture
- 2) Research and development
- 3) Increasing per capita income

**Select the correct answer using the codes given below**

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

**Ans) a**

**Option 1 is correct.** Climate-resilient agriculture will be able to withhold the attacks of climate change. Thus, productivity will be improved despite effects of climate change.

Option 2 is correct. Research and development can be helpful in increasing the productivity of the farms and producing new and improved version of crops.

Option 3 is incorrect. The per capita income is likely to grow between 5 to 6 per cent per annum, under normal conditions. As they rise from low-income levels, people are likely to demand not just more food but safe and nutritious food.

**Q.2) Consider the following statements regarding Prevention of Money Laundering Act (PMLA):**

- 1) An FIR is required before starting an investigation under the act.
- 2) Under PMLA, burden of proving innocence is on the accused.

**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

**Ans) b**

**Statement 1 is incorrect.** : IN case of PMLA, an ECIR (Enforcement Case Information Report) is registered. It is an equivalent of the FIR, is considered an "internal document" and not given to the accused.

Statement 2 is correct. In PMLA, this burden has been shifted to the accused persons; they will have to prove their innocence. Under general law every person is innocent until proven guilty.

## 10 PM Compilation for the Month of August, 2022

### Q.3) Consider the following statements regarding Hydrogen Fuel Cells?

- 1) These cells only require 3-4 electric charge in their lifetime.
- 2) Vehicles using Hydrogen Fuel Cells, only emit water vapour and warm air.

Select the correct answer using the codes below

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

#### Ans) b

Statement 1 is incorrect. According to the US Department of Energy, fuel cells work in a similar manner to conventional batteries found in electric vehicles but they do not run out of charge and don't need to be recharged with electricity. They continue to produce electricity as long as there is a supply of hydrogen.

Statement 2 is correct. The primary advantage of hydrogen fuel cell electric vehicles (FCEV) is that they produce no tailpipe emissions. They only emit water vapour and warm air.

### Q.4) Consider the following statements regarding Cloud Burst?

- 1) Rainfall of 10 cm or more in an hour in a city can be categorised as a cloud burst.
- 2) Cumulonimbus clouds are responsible for responsible for cloudbursts.

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

#### Ans) c

**Statement 1 is correct.** Rainfall of 10 cm or more in an hour over a roughly 10 km x 10-km area is classified as a cloudburst event.

Statement 2 is correct. Cloudburst occurs when moisture-rich air travels up a mountainous region, forming a vertical column of clouds known as Cumulonimbus clouds. These clouds usually cause rain, thunder and lightning.

### Q.5) Which one of the following has not been granted GI tag?

- a) Mithila Makhana
- b) Mithila Rohu
- c) Gulbarga Tur Dal
- d) Kholā Chilli

#### Ans) b

The Bihar government has decided to approach the Centre in order to get Geographical Indication (GI) tag for Mithila's famous Rohu fish. However, it is not yet granted.

**Q.6) Per-and polyfluoroalkyl substances(PFAs) which are seen in news recently, is used widely in which of the following?**

- Production of fuel cells
- Used in nonstick cookware and water-repellent products
- Used for cosmetics, especially powders
- Fabrication of solar panels.

**Answer: B**

PFAs are man-made chemicals used to make nonstick cookware, water-repellent clothing, stain-resistant fabrics, cosmetics, firefighting forms and many other products that resist grease, water and oil.

PFAs can migrate to the soil, water and air during their production and use. Since most PFAs do not break down, they remain in the environment for long periods of time. Some of these PFAs can build up in people and animals if they are repeatedly exposed to the chemicals.

Source: [Indian Express](#)

**Q.7) With reference to Linking of Aadhaar and voter ID, consider the following statements;**

- Linking Aadhaar with the voter identity card is mandatory in India.
- The linking will curb the menace of multiple enrolments of the same person in different places.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Statement 1 is incorrect:** Various government authorities have clarified that the linking of Aadhaar with the voter identity card is “voluntary. But despite that, there have been instances of people being warned by booth-level officers that their voter ID would be cancelled if the linking is not done.

**Statement 2 is correct:** The government also announced that the purpose of obtaining an Aadhaar number is **a)** For authentication of electors’ entries in the electoral roll, **b)** To extend better electoral services, **c)** For registration of migrated voters without duplication in the rolls, and **d)** To curb the menace of multiple enrolments of the same person in different places.

Source: [The Hindu](#)

**Q.8) With reference to Bisphenol-A, consider the following statements;**

- It is a chemical produced in large quantities for use primarily in the production of polycarbonate plastics and epoxy resins.
- India is the leading producer and exporter of Bisphenol-A.

**Which of the statements given above is/are correct?**

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

**Answer: A**

**Statement 1 is correct:** It is a chemical produced in large quantities for use primarily in the production of polycarbonate plastics, epoxy resins and other engineering plastics.

**Statement 2 is incorrect:** The entire estimated annual demand of 1,35,000 tons in India is imported today. So, the government recently inaugurated a Bisphenol A(BPA) pilot plant by setup by the Council of Scientific and Industrial Research-National Chemical Laboratory(CSIR-NCL). This plant will enable import substitution of this important raw material and help in India's Atmanirbhar initiative.

Source: [PIB](#)

**Q.9) With reference to facial recognition technology, consider the following statements;**

1. It creates a digital map of the face by identifying and mapping an individual's facial features.
2. Facial recognition technology cannot result in misidentification and it is always accurate.

**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

**Answer: A**

**Statement 1 is correct:** It is an algorithm-based technology which creates a digital map of the face by identifying and mapping an individual's facial features, which it then matches against the database to which it has access.

**Statement 2 is incorrect:** These technologies are prone to issues related to misidentification due to inaccuracy. Extensive research into the technology has revealed that its accuracy rates fall starkly based on race and gender.

This can result in a false positive, where a person is misidentified as someone else, or a false negative where a person is not verified as themselves thereby lead to exclusion. For instance, the use of FRT by law enforcement authorities has already led to three people in the U.S. being wrongfully arrested.

Source: [The Hindu](#)

**Q.10) Which of the following is/are the impact of doctors prescribing drugs for money or freebie?**

1. Doctors might over-medicate patients.
2. Make patients buy pricier alternatives.
3. Reduce the sale of generic medicines.

**Select the correct answer using the codes given below;**

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

**Answer: D**

Consumer access to many pharma products is regulated. But, pharma firms need to market their products to beat the competition, earn profits and continue to produce drugs for patients. So, they indulge in pill peddling activities.

Such pill peddling a) Can push doctors to over-medicate patients, b) Make patients buy pricier alternatives, c) Reduce the sale of generic medicines and d) Violate the fundamental maxim of healthcare: do no harm.

Source: [Livemint](#)

**PRELIMS**

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**Q.1) Consider the following statements with respect to tomato flu:**

1. It is a contactless flu which spreads through the air.
2. It is caused by intestinal viruses and is rare among adults due to their strong immunity.

**Select the correct codes given below:**

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

**Answer: B**

**Explanation –**

Statement 1: The statement is incorrect. Tomato flu or tomato fever can spread from one person to another through contact with an infected person. "It spreads from person to person just like a common cold, through contact with the patient's secretions including stool, for example during a diaper change in child care facilities.

Statement 2: Tomato flu is caused by intestinal viruses and is rare among adults due to their strong immunity.

Source: <https://www.hindustantimes.com/photos/news/tomato-flu-all-you-need-to-know-about-the-new-contagious-disease-in-india-affecting-children-101661162182258-3.html>

**Q.2) With respect to the Indian Olympic Association, consider the following statements:**

1. It is the governing body for both Olympic Movement and the Commonwealth Games in India.
2. It is registered as a Non-Profit Organization under the Societies Registration Act of 1860.

**Which statements given above are correct?**

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

**Answer: C**

**Explanation:**

All three statements are correct

**Context:** It is in the news because SC has extended its status quo on the implementation of Delhi High Court order directing the Indian Olympic Association (IOA) to hand over its affairs to a three member committee of Administrators (CoA).

**About**

The Indian Olympic Association is the governing body for the Olympic Movement and the Commonwealth Games in India. The IOA administers various aspects of sports governance and athletes' welfare in the country.

It is a member of the International Olympic Committee (IOC), Commonwealth Games Federation (CGF), Olympic Council of Asia (OCA) and Association of National Olympic Committees (ANOC), The IOA oversees the representation of athletes or teams participating in the Olympic Games, Commonwealth Games, Asian Games and other international multi-sport competitions of IOC, CGF, OCA and ANOC.

The Indian Olympic Association is recognised by the Ministry of Youth Affairs and Sports.

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### Foundation

The IOA was established in the year 1927 with Sir Dorabji Tata and Dr. A.G. Noehren as the Founding President and Secretary General respectively.

It is registered as a Non-Profit Organisation under the Societies Registration Act of 1860. As a member of the IOC and OCA, it is the Indian Olympic Association's primary mission to develop, promote and protect the Olympic Movement in the country.

### Governance

The Indian Olympic Association is currently governed by a 32-member Executive Council, headed by President, Dr. Narinder Dhruv Batra. The election for the Executive Council is held once in every 4 years. The last election of the IOA was held on 14th December 2017.

The working of the Executive Council is also assisted by different Standing Committees of the IOA that are constituted with experts in the subject-field to help in various aspects of governance. Together with the Executive Council Members, Standing Committees and the Office, the IOA administers Olympic movement in India.

Source: News: <https://www.thehindu.com/news/national/supreme-court-extends-status-quo-on-india-olympic-association-affairs/article65798795.ece>

More info: <https://olympic.ind.in/organisation>

### Q.3) Consider the following statements with respect to Minimum Support Price (MSP):

1. MSP for a crop is the price at which the government is supposed to procure that crop from farmers if the market price falls below it.
2. The MSPs are announced by the Union government on the recommendations of the Food Corporation of India (FCI).

### Select the correct codes given below:

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

### Answer: A

### Explanation:

Statement 1: Minimum Support Price (MSP) is the price of the crop is at which the government is supposed to procure that crop from farmers if the market price falls below it.

Statement 2: The statement is incorrect. The MSPs are announced by the Union government on the recommendations of the Commission for Agricultural Costs and Prices (CACP).

Source: <https://www.thehindu.com/news/national/committee-on-msp-holds-broad-discussion-on-key-issues-in-first-meeting-but-skm-skips/article65797166.ece>



**Q.4) Consider the following statements with respect to mangrove forest?**

1. Mangrove forests only grow at tropical and subtropical latitudes near the equator because they cannot withstand freezing temperatures.
2. It helps in reducing soil erosion.
3. Anthropogenic activities are one of the reasons for decline in mangrove ecosystem.

**Which statements given above are correct?**

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

**Answer: D**

**Explanation: All three statements are correct.**

Statement 1: Mangroves are a group of trees and shrubs that live in the coastal intertidal zone. There are about 80 different species of mangrove trees. All of these trees grow in areas with low-oxygen soil, where slow-moving waters allow fine sediments to accumulate. Mangrove forests only grow at tropical and subtropical latitudes near the equator because they cannot withstand freezing temperatures.

Statement 2: Mangrove forests stabilize the coastline, reducing erosion from storm surges, currents, waves, and tides. The intricate root system of mangroves also makes these forests attractive to fish and other organisms seeking food and shelter from predators.

**Q.6) Which of the following is/are correct regarding Centre-State financial status?**

1. The Constitution grants the Union government more revenue-raising powers than state governments.
2. Both the Centre and state's share of gross tax revenue is reducing in the present year.
3. Implementation of the Ujwal DISCOM Assurance Yojana is one of the reasons for poor financial health of States.

**Select the correct answer using the codes given below;**

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

**Answer: C**

**Statement 1 is correct:** The Constitution grants the Union government more revenue-raising powers while the States are tasked to undertake most of the development and welfare-related responsibilities.

**Statement 2 is incorrect:** The Union government's share of gross tax revenue continued to rise while the state government share of gross tax revenue decreased.

**Statement 3 is correct:** The reason for poor financial health of States' are, **a)** Slowdown in growth in 2019-20, **b)** Implementation of the Ujwal DISCOM Assurance Yojana, **c)** Providing farm loan waivers, **d)** Heightened health and other expenses during the pandemic, and **e)** Revenue shortfall: Due to the reduction in gross tax revenues of states during the pandemic and the States' share of the Union government's taxes recorded a steep fall of 15% and 9% in FY20 and FY21, respectively.

Source: [The Hindu](#)

**Q.7) Consider the following statements**

1. He was one of the founding members of the Ghadar Party.
2. He joined the Mount Tamalpais Military Academy in the US.
3. He was an agricultural scientist and part of efforts to bring in the Green Revolution in Mexico.

**Which of the following personalities is described in the statements above?**

- a) Sohan Singh Bhakna
- b) Lala Har Dayal
- c) Pandurang Khankhoje
- d) Baba Jawala Singh

**Answer: C**

**Source:** [Indian Express](#)

**Q.8) Hunger Stones which were seen in news recently, is present in which of the following countries?**

- a) India
- b) Central European countries
- c) The USA
- d) Central African countries

**Answer: B**

Hunger stones or *hungersteine* in German are a common hydrological marker in central Europe. They date back to the pre-instrumental era.

These stones were embedded into rivers by ancestors when rivers were subdued to severe levels subsequently causing famine and food shortages.

Many of the hunger stones found have unique carvings on them that seek to remind the next generation that if water levels get to this point, food availability will be affected.

One famous carving example is in the Elbe river in Děčín, Czech Republic which says "Wenn du mich siehst, dann weine" ("If you see me, weep").

Source: [DTE](#)

**Q.9) With reference to Purslane, consider the following statements;**

1. It is a succulent plant that grows in many countries because it thrives in poor soil.
2. It possesses evolutionary adaptations that allow it to be both highly productive and drought tolerant.

**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

**Answer: C**

**Statement 1 is correct:** It is a succulent plant that grows in many countries because it thrives in poor soil.

**Statement 2 is correct:** Purslane possesses evolutionary adaptations that allow it to be both highly productive and drought tolerant.

corn and sugarcane have evolved 'C4 photosynthesis', which allows them to remain productive under high temperatures.

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Meanwhile, cacti and agaves have evolved 'CAM photosynthesis', which allows them to thrive in areas with little water.

The study has found that the purslane plant integrates both these two distinct metabolic pathways namely C4 and CAM to create a novel type of photosynthesis. This allows the weed to endure drought while remaining highly productive.

Source: [DTE](#)

**Q.10) With reference to Tomato Flu, consider the following statements;**

1. It is a non-contagious bacterial disease.
2. It is a non-life-threatening flu spread among children below five years of age.

**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

**Answer: B**

**Statement 1 is incorrect:** Tomato Flu is a viral disease. It is caused by Coxsackie virus A 16. It belongs to Enterovirus family. Tomato flu is very contagious.

**Statement 2 is correct:** It is a new non-life-threatening flu spread among children below five years of age.

Source: [The Hindu](#)

**Q.1) Consider the following statements with respect to Chabahar Port:**

1. It is the only port of Iran with the direct access to ocean.
2. The port is strategically important for India as it will help to boost ties with the Central Asian Countries.
3. It is located in the Gulf of Aden.

**Which of the statements given above is/are correct?**

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

**Answer: B**

Statement 1: Iran has around 26 ports but Chabahar port is the only port which has direct access with the Ocean.

Statement 2: The development of Chabahar port will help India strategically to boost its ties with the Central Asian countries by providing trade route and bypassing the route from Pakistan.

Statement 3: The statement is incorrect. It is located in Gulf of Oman.

Source: <https://www.thehindu.com/news/international/explained-reinvigorating-the-chabahar-port/article65802514.ece>

**Q.2) Consider the following statements with respect to Vertical Launch Short Range Surface-to-Air Missile (VL-SRSAM):**

1. Its design is based on BRAHMOS missiles.
2. The missile has the capability of neutralising various aerial threats at close ranges including sea-skimming targets.

**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

**Answer: B**

**Explanation:**

Statement 1: The statement is incorrect. Its design is based on Astra missile which is a Beyond Visual Range Air to Air missile.

Statement 2: VL-SRSAM has been designed and developed jointly by three facilities of the Defence Research and Development Organisation for deployment of Indian Naval warships. The missile has the capability of neutralising various aerial threats at close ranges including sea-skimming targets.

Source: <https://www.thehindu.com/news/national/drdo-indian-navy-test-fire-indigenous-vertical-launch-short-range-sam/article65801480.ece>

**Q.3) With reference to Benami Transactions (Prohibition) Amendment Act, 2016, consider the following statements:**

1. It establishes adjudicating authorities and Appellate Tribunal to deal with Benami transactions.
2. It provides immunity under the Benami Act to those who declare their benami properties under income declaration scheme.
3. The law applied retrospectively.

**Which of the statements given above are correct?**

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

**Answer: A**

**Explanation:**

Statement 1: The Benami Transactions (Prohibition) Amendment Act, 2016 was designed to curb black money. It amended the Benami Transaction (Prohibition) Act, 1988. The Benami Transactions (Prohibition) Amendment Act, 2016 establishes adjudicating authorities and Appellate Tribunal to deal with Benami transactions.

Statement 2: The law also provides immunity under the Benami Act to those who declare their benami properties under income declaration scheme.

Statement 3: The statement is incorrect. The Supreme Court recently declared as “unconstitutional and manifestly arbitrary” the amendments introduced to the Benami law in 2016, which apply retrospectively and can send a person to prison for three years even as it empowers the Centre to confiscate “any property” subject to a benami transaction. SC declared

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as unconstitutional Sections 3(2) and 5 introduced through the Benami Transactions (Prohibition) Amendment Act, 2016.

Source: <https://www.thehindu.com/news/national/supreme-court-strikes-down-provision-of-1988-benami-law/article65801341.ece>

**Q.4) Which of the following are members of Shanghai Cooperation Organization (SCO)?**

- a) India, Pakistan, Kazakhstan, Russia, China
- b) Canada, Australia, South Africa, Algeria
- c) USA, India, Australia, Brazil
- d) Bhutan, Pakistan, France, Germany

**Answer: A**

**Explanation:** The [Shanghai Cooperation Organization](https://www.thehindu.com/news/national/supreme-court-strikes-down-provision-of-1988-benami-law/article65801341.ece) (SCO) is an intergovernmental organization founded in Shanghai on 15 June 2001.

The SCO currently comprises eight Member States (China, India, Kazakhstan, Kyrgyzstan, Russia, Pakistan, Tajikistan and Uzbekistan), four Observer States interested in acceding to full membership (Afghanistan, Belarus, Iran, and Mongolia) and six “Dialogue Partners” (Armenia, Azerbaijan, Cambodia, Nepal, Sri Lanka and Turkey). In 2021, the decision was made to start the accession process of Iran to the SCO as a full member, and Egypt, Qatar as well as Saudi Arabia became dialogue partners.

The SCO has mainly focused on regional security issues, fight against regional terrorism, ethnic separatism and religious extremism. The SCO’s priorities also include regional development.

Source: <https://www.thehindu.com/news/national/in-tashkent-rajnath-singh-holds-talks-with-uzbek-kazakh-counterparts/article65802160.ece>

**Q.6) With reference to Legal Aid Defence Counsel system, consider the following statements;**

- 1. It aims to provide free legal aid to poor people facing criminal cases to defend themselves during trial.
- 2. It was launched by the Department of legal affairs.

**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

**Answer: A**

**Statement 1 is correct:** It aims to provide free legal aid to poor people facing criminal cases to defend themselves during trial.

**Statement 2 is incorrect:** It was launched by National Legal Services Authority (NALSA).

Source: [Tribune](https://tribune.com)

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**Q.7) With reference to Benami Property Transactions, consider the following statements;**

1. All the provisions of Benami Property Transactions Act can apply retrospectively.
2. The subject matter of a benami transaction shall be liable to be confiscated by the Central 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

**Answer: B**

**Statement 1 is incorrect:** In 2019, the Calcutta High Court ruled that the Benami Transactions (Prohibition) Amendment Act, 2016 cannot be applied retrospectively. The Central government then appealed to the Supreme Court against this judgement.

Recently, the Supreme Court has struck down two vital provisions of the Prohibition of Benami Property Transactions Act, 1988 which were introduced in the Benami law in 2016.

**Statement 2 is correct:** The subject matter of a benami transaction shall be liable to be confiscated by the Central Government.

Source: [The Hindu](#)

**Q.8) Which of the following statement is/are true about Cosmic Dust?**

1. It is an extraterrestrial dust which exists in outer space or has fallen on Earth.
2. They don't have any benefits and obscures objects of astronomers.
3. A supernova is a violent stellar explosion which can cause cosmic dust.

**Select the correct answer using the codes given below;**

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

**Answer: C**

**Statement 1 is correct:** Cosmic dust is also called extraterrestrial dust or space dust. It is dust which exists in outer space or has fallen on Earth.

**Statement 2 is incorrect:** Cosmic dust was once solely an annoyance to astronomers, as it obscures objects they wished to observe. But when infrared astronomy began, the dust particles were observed to be significant and vital components of astrophysical processes. Their analysis can reveal information about phenomena like the formation of the Solar System.

**Statement 3 is correct:** A supernova is a violent stellar explosion which can cause cosmic dust.

Source: [PIB](#)

**Q.9) Which of the following is/are the likely impact of providing freebies from the government?**

1. Creates a financial burden on the state exchequer.
2. Neglect the government's focus on other necessary infrastructure.
3. Increase Non Performing Assets of public sector banks.

**Select the correct answer using the codes given below;**

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

**Answer: D**

**Neglect the necessary infrastructure:** Instead of building public assets, social capacity and society, the policymakers **shifted their attention towards direct transfers and welfarism** (via distribution of private goods for free). This causes a lack of government interest in delivering good public services.

**Financial burden on state exchequer:** Recently announced freebies in many States are difficult to fund. For instance, According to the RBI data, Andhra Pradesh announced freebies in FY23 that would consume almost 30.3% of its own tax revenue; for Madhya Pradesh, this figure was close to 28.8%; for Punjab, this was around 45.4%; and for West Bengal, it was about 23.8%. All of this will increase the government debt-to-GDP ratio.

**Increase NPA:** Over the past five years, banks have written off loans worth ₹10 lakh crore due to freebies such as farm loan waivers. The share of public sector banks in such NPA write-offs was typically between 60% and 80%.

Source: [The Hindu](#)

**Q.10) The term Moonlighting was recently seen in the news. Which of the following statements clearly define the term?**

- a) Billionaires creating additional wealth by indulging in corrupt practices.
- b) The act of having a second job, or working for extra projects that counts as a secondary source of income.
- c) The active night walk of species in forests during full moon days.
- d) Chinese project of creating artificial lighting in daytime to cooldown the impact of sunlight in tropical regions.

**Answer: B**

Moonlighting simply refers to the act of having a second job, or working for extra projects, gigs, or employers, that counts as a secondary source of income, outside one's working hours.

While Swiggy launched a moonlighting policy allowing its employees to work on their passion projects outside of their work, Wipro's chairman, called the concept of moonlighting in the tech industry cheating.

Source: [TOI](#)

**PRELIMS**

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**Q.1) Consider the following statements:**

1. Under The National Food Security Act (2013) the center is in charge of allocating and transporting food grains to designated depots in the states and UTs while States and union territories are in charge of identifying eligible households and issuing licences to Fair Price Shop (FPS) dealers.
2. The National Food Security Act (2013) covers the population according to the 1991 census.
3. Right to Food is a fundamental right under Article 21 of the Constitution of India.

**Which of the statements given above are correct?**

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

**Answer: A**

**Explanation –**

Statement 1: According to the National Food Security Act of 2013, the centre is in charge of allocating and transporting food grains to designated depots in the states and UTs. States and union territories are in charge of identifying eligible households, issuing ration cards, distributing foodgrain entitlements through fair price shops, issuing licences to Fair Price Shop(FPS) dealers, and monitoring them, as well as establishing an effective grievance redress mechanism and necessary strengthening of the Targeted Public Distribution System (TPDS).

Statement 2: The statement is incorrect. The National Food Security Act (2013) covers the population according to 2011 census.

Statement 3: Right to Food is a fundamental right under Article 21 of the Constitution of India.

**Source:** <https://www.thehindu.com/news/national/expand-food-security-coverage-to-benefit-more-needy-persons-sc-tells-centre/article65806291.ece>

**Q.2) Which of the following dynasty is associated with Anang Tal Lake?**

- a) Gupta Dynasty
- b) Tomar Dynasty
- c) Suri Dynasty
- d) Lodhi Dynasty

**Answer: B**

**Explanation –**

Anang Tal Lake is situated in South Delhi and believed to have been built a thousand years ago. Recently Union Minister of State for Culture has asked the Delhi Development Authority (DDA) to restore the historic lake in Mehrauli which is said to be created by Tomar King, Anangpal II, in 1,060 AD.

**Source:** <https://www.thehindu.com/news/national/anang-tal-site-in-delhi-to-be-centrally-protected/article65805479.ece>



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### Q.2) Consider the following statements with respect to Warli paintings:

1. It is a form of tribal art mostly created by the tribal people from the North Sahyadri Range in Maharashtra.
2. These are painted on a base of cotton canvas with paints made from natural vegetables dyes.

**Select the correct answer from the codes given below:**

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

**Answer: A**

**Explanation –**

**Statement 1:** Warli painting is a form of tribal art mostly created by the tribal people from the North Sahyadri Range in Maharashtra, India. This range encompasses cities such as [Dahanu](#), [Talasari](#), [Jawhar](#), [Palghar](#), [Mokhada](#), and [Vikramgad](#) of [Palghar](#) district. This tribal art was originated in Maharashtra, where it is still practiced today.

**Statement 2:** The statement is incorrect. Warli paintings are traditionally practised on mud walls with white paste. This white paste is rice, water, and gum that acts as a critical catalyst. Warli painting has the intricate geometric patterns of flowers, hunting scenes, wedding rituals, and other activities make the paintings stand out.

**Source:** <https://www.thehindu.com/news/national/andhra-pradesh/nellore-artist-enters-record-books-for-tribal-painting/article65806547.ece>

### Q.3) With respect to e-passport consider the following statements:

1. It is a chip-enabled passport with a biometric identification card strengthening the transparency and security of travel documents.
2. The e-passport will contain biometric and demographic information of the individual.
3. It is different from a regular passport in terms of verification and information.

**Which of the statements given above are correct?**

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

**Answer: C**

**Explanation –**

**Statement 1:** An e-Passport is a chip-enabled passport with a biometric identification card strengthening the transparency and security of travel documents.

**Statement 2:** It has biometric and demographic records of individuals. Therefore, it will prevent fraudsters from conducting data piracy and making duplicate passports.

**Statement 3:** The statement is incorrect. It is not different from a regular passport in terms of application, verification, and information.

**Source:** <https://www.thehindu.com/news/cities/Hyderabad/e-passports-to-be-rolled-out-early-next-year/article65806423.ece>

**Q.5) India's first commercial Space Situational Awareness (SSA) Observatory will be setup in which of the following state?**

- a) Kerala
- b) Sikkim
- c) Arunachal Pradesh
- d) Uttarakhand

**Answer: D**

India's first commercial Space Situational Awareness (SSA) Observatory will be set up in the Garhwal region of Uttarakhand.

It will be strategically positioned to serve global space traffic management operations.

It will assist in tracking any activity in space including that of space debris and military satellites hovering over the region.

**Source:** [TOI](#)

**Q.6) Which of the following statements is not true about Garba Dance?**

- a) Garba is a form of dance which originates from the state of Gujarat.
- b) Traditionally, it is performed during the Hindu festival Navarātrī.
- c) The dance implies gestation or pregnancy.
- d) The dance honors Sita and Kunti.

**Answer: D**

Traditionally, the dance is performed around a clay lantern with a light inside, called a Garbha Deep ("womb lamp"). This lantern represents life and the fetus in the womb in particular. The dancers thus honour Durga, the feminine form of divinity.

**Source:** [All India Radio](#)

**Q.7) Which of the following statements clearly describes the term Acculturation?**

- a) It is a process in which groups adopt a new culture that virtually replaces their original culture, leaving only traces behind.
- b) An individual/group comes in contact with a new cultural group, but does not embrace aspects of the new culture but maintains their own identity.
- c) A group from one culture comes in contact with another culture, adopting the values and practices of the other and retaining their own distinct identity.
- d) Both the interacting individual/group maintaining one's own culture while also adopting aspects of a new culture.

**Answer: C**

**Acculturation:** A group from one culture comes in contact with another culture, adopting the values and practices of the other and retaining their own distinct identity.

**Assimilation:** It is a process in which groups adopt a new culture that virtually replaces their original culture, leaving only traces behind.

**Separation:** An individual/group comes in contact with a new cultural group, but does not embrace aspects of the new culture but maintain their own identity.

**Transmutation:** Both the interacting individual/group maintaining one's own culture while also adopting aspects of a new culture.

**Source:** [The Hindu](#)

**Q.8) With reference to Rhinoceros, consider the following statements;**

1. Black Rhinos are the second largest land mammal after the elephant.
2. All Javan rhinos in the world survive in Ujong Kulon National Park.
3. Greater One Horned Rhino habitat spread over India and Nepal.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Statement 1 is incorrect:** White rhinos are the second largest land mammal after the elephant.

**Statement 2 is correct:** All Javan rhinos in the world survive in Ujong Kulon National Park.

**Statement 3 is correct:** Greater One Horned Rhino habitat spread over India and Nepal.

Source: [DTE](#)

**Q.9) With reference to Supply Chain Ministerial Forum, consider the following statements;**

1. The forum aims to build collective long-term resilient supply chains based on international partnerships.
2. It is a part of Supply Chain Resilience Initiative.

**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

**Answer: A**

**Statement 1 is correct:** The forum aims to build collective long-term resilient supply chains based on international partnerships.

**Statement 2 is incorrect:** United States hosted the Supply Chain Ministerial Forum to advance work to reduce and end near-term supply chain disruptions and collaborate to build supply chain resiliency to avoid future disruptions.

**Note:** Supply Chain Resilience Initiative between India, Japan and Australia, launched in 2021.

Source: [ET](#)

**Q.10) With reference to G20 Presidency, consider the following statements;**

1. Members of IBSA — India, Brazil, and South Africa — will hold the G20 presidency consecutively in 2023, 2024, and 2025.
2. Indonesia is the current president of G20.

**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

**Answer: C**

**Statement 1 is correct:** Members of IBSA — India, Brazil, and South Africa — will hold the G20 presidency consecutively in 2023, 2024, and 2025.

**Statement 2 is correct:** Indonesia is the current president of G20. It will conduct the Bali Summit in coming November.

Source: [The Hindu](#)

**PRELIMS**

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**Q.1) Consider the following statements with respect to whale shark:**

1. It is the largest fish on earth and a keystone species in the marine ecosystem.
2. It is found in open waters of the tropical oceans.
3. It is listed in Schedule II of the Wildlife (Protection) Act 1972.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Explanation:**

**Statement 1:** The whale shark (*Rhincodon typus*) is a slow-moving, filter-feeding carpet shark and the largest known extant fish species. It is the largest fish on earth and a keystone species in marine ecosystem.

Statement 2: Whale shark is found in open waters of the tropical oceans and is rarely found in water below 21 °C.

**Statement 3:** The statement is incorrect. It is listed in Schedule I of the Wildlife (Protection) Act 1972 and its IUCN status is endangered.

**Source:** <https://www.thehindu.com/news/cities/Mangalore/wildlife-trust-of-india-to-launch-year-long-save-the-whale-shark-campaign-in-karnataka-kerala-lakshadweep-on-august-30/article65809748.ece>

**Q.2) Which of the following statements best describes the Net zero targets?**

- a) It means that from a particular year the country will not emit greenhouse gases at any cost.
- b) It means committing to a year beyond which emission will be balanced by taking an equivalent amount of greenhouse gases from the air.
- c) It means committing to a year beyond which a country's economic system will totally run-on electricity.
- d) It means committing to a year beyond which a country will be completely dependent on renewable sources of energy for its power generation.

**Answer: B**

**Explanation –**

Net-zero is also referred to as carbon-neutrality does not mean that a country would bring down its emissions to zero. Net-zero is a state in which a country's emissions are compensated by absorption and removal of greenhouse gases from the atmosphere. Therefore, it means committing to a year beyond which emission will be balanced by taking an equivalent amount of greenhouse gases from the air.

Source: [https://www.thehindu.com/business/Industry/ioc-to-spend-2-lakh-cr-for-net-zero-target-by-2046/article65810607.ece#:~:text=for%20net%20zero%20target%20by%202046,-PTI&text=Indian%20Oil%20Corporation%20\(IOC\)%2C,Madhav%20Vaidhya%20said%20on%20Thursday](https://www.thehindu.com/business/Industry/ioc-to-spend-2-lakh-cr-for-net-zero-target-by-2046/article65810607.ece#:~:text=for%20net%20zero%20target%20by%202046,-PTI&text=Indian%20Oil%20Corporation%20(IOC)%2C,Madhav%20Vaidhya%20said%20on%20Thursday)

**Q.3) Arth Ganga scheme was recently seen in the news, in this regard, which of the following statements is/are correct:**

1. It will involve Zero Budget Natural Farming on either side of the river Ganga.
2. Its objectives are effective abatement of pollution, conservation and rejuvenation of National River Ganga.

**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

**Answer: A**

**Explanation –**

**Statement 1:** Arth Ganga focuses on the sustainable development of the Ganga and its surrounding areas, by focusing on economic activities related to the river. Under Arth Ganga, the government is working on six verticals. The first is Zero Budget Natural Farming, which involves chemical-free farming on 10 km on either side of the river, and the promotion of cow dung as fertiliser through the GOBARdhan scheme.

**Statement 2:** The statement is incorrect. Effective abatement of pollution, conservation and rejuvenation of National River Ganga are the objectives of Namami Ganga Programme.

Source: <https://indianexpress.com/article/explained/arth-ganga-govts-new-model-rivers-sustainable-development-8111967/>

**Q.4) Consider the following statements:**

1. Malware is software intentionally designed to cause disruption and to gain unauthorized access to information or systems.
2. Spyware is a type of malware which is used to gather information about a person or organization and send it to another entity in a way that harms the user.

**Select the correct answer from the codes given below:**

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

**Answer: C**

Both statements are correct

**Statement 1:** Malware is software intentionally designed to cause disruption to gain unauthorized access to information or systems.

**Statement 2:** Spyware is a type of malware which is used to gather information about a person or organization and send it to another entity in a way that harms the user.

Source: <https://www.thehindu.com/news/national/of-29-phones-examined-five-infected-with-some-malware-but-does-not-mean-it-is-pegasus-spyware-panel-report-in-supreme-court/article65808941.ece#:~:text=A%20three%2Djudge%20Bench%20led,were%20given%20to%20the%20Committee>

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**Q.5) With reference to Declaration of Droughts in India, consider the following statements;**

1. The Central Government is the final authority when it comes to declaring a region as drought affected.
2. Once a drought is determined, the state government needs to issue a notification specifying the geographical extent.

**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

**Answer: B**

**Statement 1 is incorrect:** The State Government is the final authority when it comes to declaring a region as drought affected.

**Statement 2 is correct:** Once a drought is determined, the state government needs to issue a notification specifying the geographical extent. This notification is valid for six months unless de-notified earlier.

**Source:** [Indian Express](#)

**Q.6) Consider the following statements;**

1. It is the breeding place for the Salt Water Crocodiles.
2. It is the second largest Mangrove ecosystems of India.
3. The Gahirmatha Beach which forms the boundary of the sanctuary in the east is the largest colony of the Olive Ridley Sea Turtles.

**The statements given above are related to which of the following protected areas?**

- a) Deepor Beel Wildlife Sanctuary
- b) National Chambal Sanctuary
- c) Bhitarkanika National Park
- d) Pulicat Bird Sanctuary

**Answer: C**

Source: [DTE](#)

**Q.7) Nikshay Poshan Yojana which is seen in news recently, the scheme is related to which of the following?**

- a) The government provides cash incentives for prematurely born children to improve their and mother's health.
- b) The government provides cash incentives to every TB patient seeking treatment to support their nutritional needs.
- c) The cash incentives given to people such as manual scavengers, road side vendors to improve their health needs.
- d) The cash incentives given to Pregnant women and Lactating mother for improving their health.

**Answer: B**

About Nikshay Poshan Yojana

**Launched in:** 2018 by the Ministry of Health and Family Welfare.

**Under the scheme,** every TB patient in India, seeking treatment in both government and private sector hospitals is eligible for a direct benefit transfer(DBT) of Rs 500 per month to support their nutritional needs.

**Source:** [ForumIAS](#)

**Q.8) Which of the following impact/s might occur due to Privatization of Public Sector Banks?**

1. Reduction in rural and semi-urban areas bank networks.
2. Reduction of loan share to agriculture and industry.
3. Increase in infrastructure lending from Private banks.

**Select the correct answer form the codes given below;**

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

**Answer: C**

Following are the arguments given against the privatization of the PSBs in the RBI Bulletin:

**Rural Penetration:** Over 60% of PSB branches are in rural and semi-urban areas indicating the crucial role they play in financial inclusion.

**Rural Lending:** PSBs have been the leading lenders and meet over 60% of rural credit demand. While private banks have gradually made inroads in rural lending, the progress has been slow so far.

**Sectoral Share:** PSBs have allocated a larger share to agriculture and industry than private banks. The share of PSBs in agriculture lending has also increased over time.

**Infrastructure Lending:** PSBs account for a majority of infrastructure loans and their role has been especially crucial against the backdrop of the withering away of erstwhile development financial institutions

Source: [ForumIAS](#)

**Q.9) With reference to White Fungus infection, consider the following statements;**

1. It is a type of fungal infection caused by a yeast called Candida.
2. White fungus causes infection if it enters into the body in any place.

**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

**Answer: A**

**Statement 1 is correct:** White Fungus infection is also known as Candidiasis. It is a type of fungal infection caused by a yeast (a type of fungus) called Candida.

**Statement 2 is incorrect:** Candida normally lives on the skin and inside the body in places such as the mouth, throat, gut without causing any problems.

However, candida can cause infections if it grows out of control or if it enters deep into the body (for example, the bloodstream or internal organs like the kidney, heart, or brain).

Source: [PIB](#)

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**Q.10) With reference to Fiscal Federalism, consider the following statements;**

1. State governments bear more than 60 per cent of expenditure responsibilities.
2. Union government has more than 60 per cent of revenue raising power.

**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

**Answer: C**

As per the 15th Finance Commission, states bear more than 62 per cent of expenditure responsibilities but are given only 37 per cent of revenue raising power, while the Union government owns 63 per cent of revenue raising power to spend on 38 per cent of its expenditure responsibilities.

**Source:** [Indian Express](#)



**PRELIMS**

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**Q.1) With reference to the Indo-Pacific Economic Framework (IPEF) consider the following statements:**

1. IPEF is like a Free Trade Agreement (FTA) which involves reducing tariffs on the imports and exports made between the member countries.
2. It has four pillars and supply chain is one of the pillars of IPEF.

**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

**Answer: B**

**Explanation –**

Statement 1: The statement is incorrect. The US has said that the IPEF is not a Free Trade Agreement (FTA) like the Regional Comprehensive Economic Partnership (RCEP) and Comprehensive and Progressive Transpacific Partnership (CPTPP). It has not involved, nor has it promised to involve in the future, negotiations to remove tariffs or increase market access.

Statement 2: The Indo-Pacific Economic Framework (IPEF) was launched by United States (US) President Biden in Tokyo on May 23, 2022. The IPEF has four pillars: Trade; supply chains; clean energy, decarbonisation and infrastructure; tax and anti-corruption.

Source: <https://www.wionews.com/india-news/indian-trade-minister-goyal-to-take-part-in-ipef-ministerial-in-us-508950>

**Q.2) With reference to Indian Pangolin (thick-tailed pangolin) consider the following statements:**

1. It is a nocturnal mammal which is mostly active during the night.
2. It has been listed as vulnerable in IUCN Red List of threatened species.

**Select the correct answer using the code given below:**

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

**Answer: A**

**Explanation:**

Statement 1: The Indian pangolin (*Manis crassicaudata*), also called thick-tailed pangolin and scaly anteater is a pangolin native to the Indian subcontinent. It is a solitary, shy, slow-moving, nocturnal mammal.

Statement 2: The statement is incorrect. It has been listed as endangered (EN) in the IUCN Red List of threatened species.

Source: <https://www.thehindu.com/sci-tech/energy-and-environment/endangered-pangolin-scaly-anteater/article65797432.ece>

**Q.3) In context to the Indian defense system the term 'Zorawar' refers to –**

- A heavy tank which can operate in varying terrain from High Altitude Area to island territories.
- A light tank which can operate in varying terrain from High Altitude Area to island territories.
- A short-range anti-ship cruise missile.
- A medium range surface to air missile.

**Answer: B**

**Explanation –** Zorawar is a Light Tanks that has been named after Zorawar Singh Kahluria, who was a military general. It has been designed in such a way that it will be able to operate in varying terrain from High Altitude Area, island territories as well as marginal terrain.

Source: <https://www.thehindu.com/news/national/indian-army-accelerates-procurement-of-light-tank-zorawar-for-lac/article65814103.ece>

**Q.4) With reference to 'synthetic embryos' seen in the news recently consider the following statements:**

- These are the embryos which are created by the process of fertilization.
- These embryos rely on self-assembling stem cell structures to mimic the natural process of early human development.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Explanation –**

Statement 1: The statement is incorrect. These are the embryos which are created without fertilization. These are also called as artificial embryos that do not require egg or sperm cell to facilitate their creation.

Statement 2: These embryos rely on self-assembling stem cell structures to mimic the natural process of early human development.

Source: <https://www.indiatoday.in/science/story/synthetic-embryo-grown-without-sperm-womb-it-has-a-brain-and-a-beating-heart-1992796-2022-08-26>

**Q.5) With reference to Perpetual Bonds, consider the following statements;**

- Like other types of bonds, these perpetual bonds are also redeemable.
- This type of bond is often considered a type of equity, rather than debt.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Statement 1 is incorrect:** One major drawback to these perpetual bonds is that they are not redeemable. However, the major benefit of them is that they pay a steady stream of interest payments forever.

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**Statement 2 is correct:** A perpetual bond, also known as a "consol bond" is a fixed income security with no maturity date. This type of bond is often considered a type of equity, rather than debt.

Source: [Livemint](#)

### Q.6) Which of the following is/are correct about Software-as-a-Service (SaaS)?

1. It is a software licensing model in which access to the software is provided on a subscription basis.
2. In this model, software is located on internal servers.
3. It allows each user to access programs via the Internet, instead of having to install the software on the user's computer.

**Select the correct answer using the codes given below;**

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

**Answer: C**

**Statement 1 is correct:** It is a software licensing model in which access to the software is provided on a subscription basis.

**Statement 2 is incorrect:** In SaaS, the software will be located on external servers rather than on servers located in-house.

**Statement 3 is correct:** It allows each user to access programs via the Internet, instead of having to install the software on the user's computer.

Source: [Mint](#)

### Q.7) With reference to National Cancer Grid (NCG), consider the following statements;

1. It aims to create a network of cancer centres, research institutes, patient groups and charitable institutions across India.
2. It was established by the Ministry of Health and Family Welfare.

**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

**Answer: A**

**Statement 1 is correct:** It is an "informal mechanism" to support Pacific islands and to boost diplomatic, and economic ties in the pacific region.

**Statement 2 is incorrect:** It was established by the government of India through the Department of Atomic Energy and with the grant support of Tata Memorial Centre.

Source: [PIB](#)

**Q.8) PEN-PLUS Strategy was recently seen in the news. The strategy is related to which of the following?**

- It is a strategy used by the military to demilitarize civilian zones after military operation.
- It is a strategy to address severe Non-Communicable Diseases.
- It is a strategy adopted by Indian health department to decontaminate and sanitize zones with highly contagious diseases.
- It is a new strategy to equip senior citizens with adequate read and write capability to use digital products.

**Answer: B**

Recently, Africa has adopted a new strategy called PEN-PLUS Strategy to boost access to the diagnosis, treatment and care of severe Non-Communicable Diseases (NCD). It's a regional strategy to address severe Non-Communicable Diseases at First-Level Referral Health Facilities.

Source: [DTE](#)

**Q.9) With reference to Feni River, consider the following statements;**

- It forms part of the India-Bangladesh border.
- Maitri Setu Bridge is constructed in Tripura on this river to link India-Bangladesh.

**Which of the statements given above is/are correct?**

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

**Answer: C**

**Statement 1 is correct:** The Feni River, also known as Feni Nodi in Bengali, forms part of the India-Bangladesh border.

**Statement 2 is correct:** Maitri Setu is a 1.9km Long Bridge constructed over Feni River in Tripura. This bridge links India-Bangladesh.

Source: [Indian Express](#)

**Q.10) With reference to Artemis I Mission, consider the following statements;**

- Artemis I is a manned mission of NASA and ESA.
- It will be the first in a series of increasingly complex missions to build a long-term human presence at the Moon.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Statement 1 is incorrect:** Artemis I is an uncrewed mission of NASA.

**Statement 2 is correct:** It will be the first in a series of increasingly complex missions to build a long-term human presence at the Moon for decades to come.

Source: [Indian Express](#)

**PRELIMS**

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**Q.1) Consider the following statements:**

1. Section 9A of the Representation of People's Act, 1951 deals with the disqualification of a legislator for a government contract.
2. Office of Profit is not mentioned in the Constitution of India.

**Select the correct answer using the code given below:**

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

**Answer: A**

**Statement 1:** Section 9A of the Representation of People's Act, 1951 deals with the disqualification of a legislator for a government contract.

**Statement 2:** The statement is incorrect. Office of Profit is mentioned in the Constitution but not defined in the Constitution of India.

Source: <https://timesofindia.indiatimes.com/india/explained-what-happens-if-a-cm-is-disqualified-as-mla/articleshow/93798559.cms>

**Q.2) Yu Shan Mountain is located in –**

- a) Philippines
- b) China
- c) Taiwan
- d) South Korea

**Answer: C**

**Explanation –**

Yu Shan or Yushan, also known as Mount Jade, Jade Mountain, or Mount Yu is the highest mountain in Taiwan at 3,952 m (12,966 ft). It gives Taiwan the 4th-highest maximum elevation of any island in the world. It is the highest point in the western Pacific region outside of the Kamchatka Peninsula. Yushan and its surrounding mountains belong to the Yushan Range.

Source: <https://www.thehindu.com/news/international/in-a-first-india-refers-to-militarisation-of-taiwan-strait-by-china/article65821313.ece>

**Q.3) With reference to Pradhan Mantri Jan Dhan Yojana (PM-JDY) consider the following statements:**

1. It is a national mission for financial inclusion to ensure access to financial services.
2. It provides for financial literacy program to teach use of ATMs and using mobile phones for banking.

**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

**Answer: C**

Statement 1: PMJDY is a national mission for financial inclusion to ensure access to financial services namely, Banking/ Savings & Deposit Accounts, Remittance, Credit, Insurance, Pension in an affordable manner.

Statement 2: It provides for financial literacy program to promote savings, use of ATMs, getting ready for credit, availing insurance and pensions, and using basic mobile phones for banking.

Source: <https://www.thehindu.com/business/Economy/nirmala-sitharaman-says-financial-inclusion-major-step-towards-inclusive-growth/article65821744.ece>

**Q.4) With reference to Japanese Encephalitis Virus (JEV) seen in the news recently consider the following statements:**

1. It is a viral brain infection that is spread through mosquitoes.
2. The virus is found in camels.
3. There is no cure for the disease.

**Which of the statements given above are correct?**

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

**Answer: A**

**Explanation**

Statement 1: Japanese Encephalitis Virus (JEV) is a viral brain infection that is spread through mosquitoes.

Statement 2: The statement is incorrect. The virus is found in pigs and birds and it is passed to mosquitoes when they bite infected animals.

Statement 3: Currently there is no cure for this disease. Treatment involves supporting the function of the body as it tries to fight off the infection.

Source: <https://indianexpress.com/article/north-east-india/assam/assam-japanese-encephalitis-deaths-8116555/>

**Q.5) With reference to the Constitution Bench in the Supreme Court, consider the following statements;**

1. A Constitution Bench is a bench of the Supreme Court having five or more judges on it.
2. The minimum number of judges for the interpretation of the Constitution was mentioned in the Constitution.

**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

**Answer: C**

**Statement 1 is correct:** A Constitution Bench is a bench of the Supreme Court having five or more judges on it.

**Statement 2 is correct:** Article 145(3) says that the minimum number of Judges who are to sit for the purpose of deciding any case involving a substantial question of law as to the interpretation of this Constitution or for the purpose of hearing any reference under Article 143 shall be five.

Source: [The Hindu](#)

**Q.6) With reference to James Webb Space Telescope(JWST), consider the following statements;**

1. It is designed and developed by NASA.
2. The space telescope is designed to study the earliest stars in the universe and other cosmic mysteries.

**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

**Answer: B**

**Statement 1 is incorrect:** It is an international collaboration between NASA, the European Space Agency (ESA), and the Canadian Space Agency (CSA).

**Statement 2 is correct:** The space telescope is designed to study the earliest stars in the universe and other cosmic mysteries.

Source: [Indian Express](#)

**Q.7) Bilateral Air Force Exercise Cope India is conducted between India and which of the following country?**

- a) France
- b) Australia
- c) The USA
- d) South Africa

**Answer: C**

Exercises between India and the USA

**Yudh Abhyas:** Military exercise.

**Tiger Triumph:** Tri-service military exercise.

**Cope India:** Bilateral Air Force exercise.

Source: [PIB](#)

**Q.8) Which of the following activities can be considered as a Waste to Wealth generating activity?**

1. Utilizing Fly Ash produced through the combustion for making bricks.
2. Converting used cooking oil into an alternative fuel.
3. Converting organic food waste into biogas.

**Select the correct answer using the codes given below;**

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

**Answer: D**

Source: [PIB](#)

**Q.9) With reference to Swachh Sagar, Surakshit Sagar campaign, consider the following statements;**

1. It is a citizen-led initiative aimed at improving the coastal and ocean health via community action.
2. The nodal ministry for this campaign is Ministry of Environment Forest and Climate Change (MoEFCC).

**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

**Answer: A**

**Statement 1 is correct:** It is a citizen-led initiative aimed at improving coastal and ocean health via community action.

**Statement 2 is incorrect:** The campaign is spearheaded by the Ministry of Earth Sciences (MoES) in partnership with the Ministry of Environment Forest and Climate Change (MoEFCC), Indian Coast Guard, National Disaster Management Authority (NDMA) and other institutions.

Source: [PIB](#)



**Q.10) Which of the following is/are the correct about the Postal Index Number(PIN) code in India?**

1. It can only be used by the Postal department and not by couriers, e-commerce players and other service providers.
2. It helps in easy identification of the postal district and the addressee's delivery post office.
3. All the post offices sort the letters mechanically using postal codes.

**Select the correct answer using the codes given below;**

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

**Answer: A**

**Statement 1 is incorrect:** Though the code was originally designed to help postal operations, today it is used by couriers, e-commerce players and various other service providers as a means of locational identification of a person.

**Statement 2 is correct:** PGII has laid focus on climate action and clean energy while China has built large coal-fired plants under BRI along with solar, hydro, and wind energy projects.

**Statement 3 is incorrect:** The delivery jurisdiction of the post office is normally divided into beats and there is a postman assigned to each beat. At beat level, sorting at the post office is done manually in India.

Source: [The Hindu](#)

**PRELIMS**

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**Q.1) Which of the following are the benefits provided under Scheme for Economic Empowerment of Denotified, Nomadic, Semi-nomadic (SEED) Tribes**

1. Educational empowerment
2. Health Insurance
3. Facilitate livelihoods
4. Housing

**Select the correct answer using the codes given below**

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

**Ans) d**

**Exp)**

Union Minister for Social Justice and Empowerment launched the Scheme for Economic Empowerment of DNTs (SEED) for the welfare of De-notified, Nomadic and Semi Nomadic Communities.

The four components of the Scheme for Economic Empowerment of DNTs are:

**1. Educational empowerment:** A component of free Coaching for DNT Students has been envisioned for the educational empowerment of these communities.

**2. Health Insurance:** It is most likely that members of DNT/NT/SNT communities have little or no access to medical facilities and other benefits available under the mainstream health policies.

**3. Facilitate livelihoods:** The decline of traditional occupations of DNT/NT/SNT communities has exacerbated their poverty. A focus to support livelihood generation for these communities is required.

**4. Housing:** At present, a very large number of families belonging to the DNT/NT communities are without permanent shelters. In view of their changing socio-economic scenario, a large number of DNT communities are trying to settle themselves and take to alternative professions.

**Q.2) Consider the following statements regarding standalone 5G networks**

- 1) It does not require the use of existing 4G network and runs parallel to it.
- 2) The initial cost of standalone 5G networks is significantly less than non-standalone networks.

**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

**Ans) a**

**Exp)**

Statement 1 is correct. In the standalone mode, which Jio has chosen, the 5G network operates with dedicated equipment, and runs parallel to the existing 4G network, while in the non-standalone mode, the 5G network is supported by the 4G core infrastructure.

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Statement 2 is incorrect. Non-standalone networks are built on existing infrastructure, the initial cost and the time taken to roll out services through this track is significantly less than standalone networks.

### Q.3) What is NASA's Artemis mission?

- a) Manned Moon mission
- b) Manned asteroid mission
- c) Manned mission to Mars
- d) Mission to find new habitable planets

**Ans) a**

**Exp)**

With Artemis missions, NASA will land the first woman and first person of color on the Moon, using innovative technologies to explore more of the lunar surface than ever before.

### Q.4) With reference to climate change, which of the following statements correctly describes the term 'Zombie Ice', recently seen in news?

- a) The big block of ice that has broken away from glacier and is flowing away in the sea.
- b) The ice blocks that are still attached to the glaciers, but no longer getting new ice by parent glaciers
- c) The ice which is getting black due to black carbon and absorbing much more heat.
- d) The ice blocks which are not affected by the heat and continue to grow.

**Ans)**

**Exp) b**

Zombie ice is doomed ice that, while still attached to thicker areas of ice, is no longer getting replenished by parent glaciers now receiving less snow. Without replenishment, the doomed ice is melting from climate change and will inevitably raise seas.

### Q.5) Consider the following statements regarding the One District One Product (ODOP) initiative

- 1) The initiative has replaced the past initiative of 'Districts as Export Hub' initiative.
- 2) It is a centrally sponsored scheme.

**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

**Ans) b**

**Exp)**

Statement 1 is incorrect. One District One Product (ODOP) initiative is operationally merged with 'Districts as Export Hub' initiative being implemented by DGFT.

Statement 2 is correct. It is a centrally sponsored scheme to be shared by the central government and states in 60:40 contributions.

**Q.6) Consider the following statements:**

1. The UN High Seas Treaty is concerned with the ocean existing within the Exclusive Economic Zones.
2. The warming of the ocean due to climate change has led to a rise in the sea level due to thermal expansion.

**Select the correct answer using the code given below:**

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

**Answer: B**

**Explanation –**

Statement 1: The statement is incorrect. The UN High Seas Treaty concerns with the ocean existing beyond the Exclusive Economic Zones. Exclusive Economic Zones lie from the coast of a country to about 200 nautical miles or 370 km into the sea, till where the country has special rights for exploration.

Statement 2: There are many effects of warming of ocean due to climate change. The effects are – sea level rise due to thermal expansion, coral bleaching, accelerated melting of Earth's major ice sheets, intensified hurricanes, and changes in ocean health and biochemistry.

**Source:** <https://indianexpress.com/article/explained/explained-global/explained-un-high-seas-treaty-countries-failed-agree-8119500/>

**Q.7) With reference to Southern Rice Black-Streaked Dwarf Virus (SRBSDV) seen in the news recently consider the following statements:**

1. The virus is spread by the white-backed plant hopper.
2. The virus is found in the seeds of the infected plants and it is transmitted by seeds.

**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

**Answer: A**

**Explanation –**

Statement 1: The mysterious disease resulting in “dwarfing” of rice plants, reported mainly from Punjab and Haryana, has been caused by the Southern Rice Black-Streaked Dwarf Virus (SRBSDV). The virus is spread by the white-backed plant hopper, an insect pest, which injects it while sucking the sap from mostly young plants.

Statement 2: The statement is incorrect. The virus is not found in the seeds collected from the infected plants. The virus is specific to the phloem (plant tissues that transport sugar and organic nutrients from the leaves to other parts) and is not transmitted by seed or grain.

**Source:** <https://indianexpress.com/article/india/iari-new-virus-behind-mystery-dwarfing-of-rice-8117779/>

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### Q.8) With reference to Poshan Tracker consider the following statements:

1. It has been launched by the Ministry of Health & Family Welfare.
2. It is one of the important pillars of the Poshan Abhiyan and helps the government monitor services delivered at anganwadi centres and record nutritional indicators of beneficiaries.

#### 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

#### Answer: B

Statement 1: The statement is incorrect. It has been launched by the Ministry of Women and Child Development.

Statement 2: It is one of the important pillars of the Poshan Abhiyan and helps the government monitor services delivered at anganwadi centres and record nutritional indicators of beneficiaries, including children in the age of six months to six years as well as pregnant women and lactating mothers.

Source: <https://indianexpress.com/article/india/mann-ki-baat-pm-modi-citizens-fight-malnutrition-8117264/>

### Q.9) With reference to the United Nations General Assembly (UNGA) consider the following statements:

1. The annual General Assembly session is held in the month of January every year.
2. Decisions on admission of new members in the Assembly require a two-thirds majority of the members of the General Assembly.

#### 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

#### Answer: B

#### Explanation –

Statement 1: The statement is incorrect. The annual General Assembly session is held in the month of September every year in New York.

Statement 2: Decisions on admission of new members in the Assembly require a two-thirds majority of the members of the General Assembly.

Source: <https://www.livemint.com/news/india/unga-praises-india-s-role-at-united-nations-11661788186119.html>

**PRELIMS**

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**Q.1) Consider the following statements regarding the Special Marriage Act, 1954**

1. It does not cover inter-caste marriages.
2. The act does not cover Indian nationals in foreign countries

**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

**Ans) d**

Statement 1 is incorrect. Under certain provisions of the SMA under which couples seek refuge for inter-faith and inter-caste marriages

Statement 2 is incorrect. The Special Marriage Act, 1954 is an Act of the Parliament of India with provision for civil marriage for people of India and all Indian nationals in foreign countries, irrespective of religion or faith followed by either party.

**Q.2) Consider the following statements**

- 1) India is the world's biggest producer of millets.
- 2) UN General Assembly declared 2023 the "International Year of the Millets"

**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

**Ans) c**

Statement 1 is correct. India is the world leader in the production of millets with share of around 41% of total world production in 2020.

Statement 2 is correct

**Q.3) Consider the following statements**

- 1) Afforestation is not possible in the areas affected by mines, due to negative effects of soot.
- 2) India has an INDC commitment to create additional carbon sink of 2.5 to 3 billion tonnes of CO<sub>2</sub> equivalent through additional forest and tree cover by 2030.

**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

**Ans) b**

Statement 1 is incorrect. Afforestation is a proven way of restoration of lands damaged by anthropogenic activities and must for achieving satisfactory rehabilitation of a mined landscape.

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Statement 2 is correct. Greening initiatives of the coal sector support India's NDC commitment to create additional carbon sink of 2.5 to 3 billion tonnes of CO<sub>2</sub> equivalent through additional forest and tree cover by 2030.

### Q.4) Consider the following statements regarding Banni Grasslands:

1. They extend to both states of Gujarat & Rajasthan
2. Maldhari community is normally associated with Banni Grasslands.
3. It has been demarcated as a reserve forest.

**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

**Answer: B**

#### **Explanation:**

Banni Grassland is situated near the Great Rann of Kutch in Gujarat. It is considered to be the largest Grassland in Asia.

The grassland spreads over 2,618 kilometers and accounts for almost 45% of the pastures in Gujarat.

**Formation:** The word 'Banni' comes from the Hindi word 'banai', meaning made. The land here was formed from the sediments that were deposited by the Indus and other rivers over thousands of years.

**Ecosystem:** Two ecosystems, wetlands and grasslands are juxtaposed in Banni.

**Vegetation:** The vegetation in Banni is sparse and highly dependent on rainfall. It is dominated by low-growing forbs and graminoids, many of which are halophiles (salt-tolerant), as well as scattered tree cover and scrub. The grasslands were traditionally managed by a system of rotational grazing.

**Flora and Fauna:** The area is rich in flora and fauna with 192 species of plants, 262 species of birds, several species of mammals, reptiles, and amphibians.

**Reserve Forest:** In 1955, the court notified the grassland will be a reserve forest. In, 2019, the NGT ordered to demarcate the boundaries of the Banni grassland and restricted non-forest activities.

**Significance:** Wildlife Institute of India (WII) has identified this grassland reserve as one of the last remaining habitats of the cheetah in India. Also, a possible reintroduction site for the species.

**Q.5) Operation Blue Freedom was sometimes seen in the news. Which of the following statement explains it correctly?**

- a) It is an Indian military operation carried out in Kargil which led to India's victory over Pakistan
- b) It is a mission undertaken by the Indian Air Force for airdropping supplies over the besieged town of Jaffna in Sri Lanka to support the Tamil Tigers during the Sri Lankan Civil War.
- c) It is a social impact venture aimed at rehabilitating people with disabilities through adaptive adventure sports.
- d) It is an operation carried out by Indian Navy in the Gulf Region to ensure safe passage of Indian Flag Vessels transiting through the Strait of Hormuz.

**Answer: C**

**Explanation:**

**Operation Vijay**

It was launched by the Indian Army to recapture the Indian territories from Pakistani intruders in the Kargil-Drass sector in 1999.

**Operation Poomalai**

It is a mission undertaken by the Indian Air Force for airdropping supplies over the besieged town of Jaffna in Sri Lanka to support the Tamil Tigers during the Sri Lankan Civil War.

**Operation Blue Freedom**

Operation Blue Freedom is a social impact venture aimed at rehabilitating people with disabilities through adaptive adventure sports.

It aims to shatter the common perception of pity, charity and inability associated with people with disabilities and recreate it to one of dignity, freedom and ability. It was launched in 2019 by Team CLAW.

**Operation Sankalp**

In the backdrop of the deteriorating security situation in the Gulf region, post attacks on merchant ships in the Gulf of Oman in June 2019, Indian Navy had commenced Maritime Security Operations, code named Op SANKALP, in the Gulf Region on 19 June 2019 to ensure safe passage of Indian Flag Vessels transiting through the Strait of Hormuz.

**Q.6) With reference to cloud seeding, consider the following statements:**

- 1. It is a weather modification technique that improves a cloud's ability to produce rain or snow by introducing tiny ice nuclei into certain types of subfreezing clouds.
- 2. Aluminum hydroxide is the most common chemical used for cloud seeding.

Select the correct statement using the code given below:

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

**Answer: A**

**Explanation –**

Statement 1: Cloud seeding is a weather modification technique that improves a cloud's ability to produce rain or snow by introducing tiny ice nuclei into certain types of subfreezing clouds. These nuclei provide a base for snowflakes to form.



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**Statement 2:** The statement is incorrect. The most common chemicals used for cloud seeding include silver iodide, potassium iodide and dry ice (solid carbon dioxide).

**Source:** <https://indianexpress.com/article/technology/science/parched-uae-turns-to-science-to-squeeze-more-rainfall-from-clouds-8120965/>

**Q.7) With reference to Group of Twenty (G20) consider the following statements:**

1. Geneva is the permanent secretariat of G20.
2. It works to address major issues such as climate change mitigation and sustainable development.

**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

**Answer: B**

**Explanation –**

Statement 1: The statement is incorrect. The G20 Presidency rotates annually according to a system that ensures a regional balance over time. Reflecting its nature as an informal political forum, the G20 does not have a permanent secretariat. Instead, the G20 president is responsible for bringing together the G20 agenda in consultation with other members and in response to developments in the global economy.

Statement 2: The G20 or Group of Twenty is an intergovernmental forum comprising 19 countries and the European Union (EU). It works to address major issues related to the global economy, such as international financial stability, climate change mitigation, and sustainable development.

Source: [https://www.business-standard.com/article/current-affairs/india-showing-intent-as-problem-solver-environment-minister-at-g20-meet-122083100189\\_1.html](https://www.business-standard.com/article/current-affairs/india-showing-intent-as-problem-solver-environment-minister-at-g20-meet-122083100189_1.html)

**Q.8) Which of the following is the positive impact of the Rupee depreciation on the Indian economy?**

- a) Increase in the Current Account Deficit
- b) Higher franchise royalties
- c) Increase in the exports
- d) Increase in inflation

**Answer: C**

**Explanation –** when the rupee depreciates it helps in the export of India as the traders get more values of the product in the international market.

Source: <https://timesofindia.indiatimes.com/business/faqs/forex-faqs/rupee-dollar-exchange-rate-faqs-factors-responsible-current-rate-domestic-economy-and-more/articleshow/93903066.cms>

**Q.9) With reference to Indian economy, which of the following is not part of the eight core sectors?**

- a) Coal
- b) Fertilizer
- c) Steel
- d) Automobile

**Answer: D**

**Explanation –**

The eight core sectors include – coal, crude oil, natural gas, refinery products, fertilizers, steel, cement and electricity. These industries have a major impact on general economic activities and also industrial activities. The core sector represents the capital base of the economy. These eight industries have a combined share of above 40% in the Index of Industrial Production (IIP).

Source: <https://timesofindia.indiatimes.com/business/india-business/core-sector-output-slows-down-to-4-5-in-july/articleshow/93905595.cms>

**PRELIMS**

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**Q.1) With reference to PARAKH consider the following statements:**

1. It is an autonomous institution under the Union Education Ministry that will set norms for student assessment and evaluation for all school boards across the country.
2. It will also guide standardized testing to monitor learning outcomes at the State and national levels.

**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

**Answer: C**

**Explanation –**

Statement 1: PARAKH (Performance Assessment, Review, and Analysis of Knowledge for Holistic Development) is a National Assessment Centre. It is an autonomous institution under the Union Education Ministry that will set norms for student assessment and evaluation for all school boards across the country.

Statement 2: It will also guide standardised testing to monitor learning outcomes at the State and national levels.

Source: <https://indianexpress.com/article/education/specials/uniformity-across-all-boards-regulator-for-exam-assessment-parakh-8121746/>

**Q.2) With reference to Pradhan Mantri Garib Kalyan Ann Yojana (PM-GKAY) consider the following statements:**

1. It provides additional 5 kg grains for free in addition to the subsidized food grains.
2. It will provide grains only to those who are covered under the [National Food Security Act 2013](#).
3. The expenditure of the distribution will be borne by Government of India and respective state governments.

**Which of the statements given above are correct?**

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

**Answer: A**

**Explanation –**

Pradhan Mantri Garib Kalyan Ann Yojana (PMGKAY) was announced by Government of India during covid pandemic to provide free food grains to the affected population.

The scheme is aimed at providing each person who is covered under the [National Food Security Act 2013](#) with an additional 5 kg grains (wheat or rice) for free, in addition to the 5 kg of subsidised foodgrain already provided through the [Public Distribution System \(PDS\)](#).

Government of India will bear all expenditure of over Rs. 26,000 crore on account of food subsidy and Central assistance to states/UTs on account of intra-state transportation etc.

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Source: <https://timesofindia.indiatimes.com/business/india-business/govt-yet-to-decide-on-extending-free-foodgrains-scheme-beyond-september-finance-secretary/articleshow/93911240.cms>

### Q.3) Consider the following statements:

1. India will receive more rainfall than normal leading to floods.
2. Australia and Indonesia will see droughts.

**Which of the above will be the impact of La Nina?**

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

**Answer: A**

**Explanation –**

Impacts of La Nina are:

- 1) abnormally heavy monsoons in India and Southeast Asia.
- 2) cool and wet winter weather in southeastern Africa, wet weather in eastern Australia.
- 3) cold winter in western Canada and northwestern United States.
- 4) winter drought in the southern United States.
- 5) It also leads to heavy floods in Australia.

Source: <https://www.indiatoday.in/amp/environment/story/wmo-forecasts-first-triple-dip-la-nina-of-the-century-1994769-2022-08-31>

### Q.4) With reference to the Financial Stability Development Council (FSDC), consider the following statements:

1. It is an institutional body established on the recommendations of the Raghuram Rajan Committee.
2. It is chaired by the Prime Minister of India.
3. Its function is to strengthen and institutionalize the mechanism for maintaining financial stability.

**Which of the statements given above are correct?**

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

**Answer: A**

**Explanation –**

FSDC is a non-statutory apex council under the Ministry of Finance constituted by the Executive Order in 2010.

The Raghuram Rajan committee (2008) on financial sector reforms first proposed the creation of FSDC.

It is chaired by the finance minister.

Its function is to strengthen and institutionalize the mechanism for maintaining financial stability, enhancing inter-regulatory coordination and promoting financial sector development.

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It monitors various macro-prudential activities of the Indian economy and is also responsible for the promotion of financial inclusion and literacy among the masses.

Source: <https://www.thehindu.com/business/Economy/finance-minister-to-review-state-of-economy-at-fsdc-meeting-on-september-15/article65833520.ece>

### Q.5 Which of the following is/are the correct about Limited Liability Partnerships (LLPs)?

1. If the partnership fails, then creditors cannot go after a partner's personal assets or income.
2. Each partner is not responsible for another partner's misconduct or negligence.
3. LLPs are available for both formal and informal sectors.

Select the correct answer using the codes given below;

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

**Answer: D**

Source: [ForumIAS](#)

### Q.6) Consider the following statements;

1. It is one of the major west-flowing rivers in India.
2. It originates in the Aravalli Range of the Udaipur District of Rajasthan.
3. Atal Bridge, a foot-over bridge (FOB), is constructed on this river.

Which of the following rivers is mentioned in the statements above?

- a) Narmada
- b) Sabarmati
- c) Pampa
- d) Mandovi

**Answer: B**

Source: [ForumIAS](#)

### Q.7) With reference to anti-radiation pills, consider the following statements;

1. These consist of Potassium iodide (KI).
2. These pills can reverse any damage done by radiation to the thyroid gland.
3. They can help block absorption and subsequent concentration of radioactive iodine.

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

**Answer: A**

**Statement 1 is correct:** Potassium iodide (KI) tablets, or anti-radiation pills, are known to provide some protection in cases of radiation exposure.

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**Statement 2 is incorrect:** KI pills are preventive only and cannot reverse any damage done by radiation to the thyroid gland.

**Statement 3 is correct:** They contain non-radioactive iodine and can help block absorption, and subsequent concentration, of radioactive iodine in the thyroid gland.

Source: [ForumIAS](#)

**Q.8)** With reference to **Bhang**, consider the following statements;

1. It is the edible preparation made from the leaves of the cannabis plant, often incorporated into drinks.
2. The Narcotic Drugs and Psychotropic Substances (NDPS) Act mention bhang as a prohibited drink or prohibited drug.

**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

**Answer: A**

**Statement 1 is correct:** It is the edible preparation made from the leaves of the cannabis plant, often incorporated into drinks.

**Statement 2 is incorrect:** Nowhere in the Narcotic Drugs and Psychotropic Substances(NDPS) Act is bhang referred to as a prohibited drink or prohibited drug.

Source: [Indian Express](#)

**Q.9)** With reference to **Price Stabilization Fund(PSF)**, consider the following statements;

1. It is administered by the Commission for Agricultural Costs and Prices.
2. It helps to regulate the price volatility of important agri-horticultural commodities like onion, potatoes and pulses.

**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

**Answer: B**

**Statement 1 is incorrect:** It is administered by the Department of Consumer Affairs.

**Statement 2 is correct:** It helps to regulate the price volatility of important agri-horticultural commodities like onion, potatoes and pulses.

Source: [PIB](#)

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**Q.10) Exercise Synergy was recently seen in the news. The exercise is related to which of the following?**

- a) It is a bilateral Navy exercise between India and Australia.
- b) It is a global collaboration exercise to monitor global progress in climate change.
- c) It is a new exercise to address the governance gaps in local panchayats and urban bodies.
- d) It is an international Cyber Security Exercise to build network resiliency against ransomware and cyber extortion attacks.

**Answer: D**

Indian Computer Emergency Response Team(CERT-In) under the Ministry of Electronics and IT, Government of India in collaboration with the Cyber Security Agency of Singapore (CSA) has successfully designed and conducted the Cyber Security Exercise “Synergy” for 13 countries.

Source: [PIB](#)

**PRELIMS**

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**Q.1) With reference to “windfall tax” seen in the news recently consider the following statements:**

1. It is a tax levied by governments against certain industries when economic conditions allow those industries to experience above-average profits.
2. The imposition of the tax makes the product costlier.

**Select the correct statement using the code given below:**

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

**Answer: A**

**Explanation –**

Statement 1: A windfall tax is a tax levied by governments against certain industries when economic conditions allow those industries to experience above-average profits. Windfall taxes are primarily levied on companies in the targeted industry that have benefited the most from the economic windfall, most often commodity-based businesses.

Statement 2: The statement is incorrect. The tax is imposed on the above average profit made by the industry. Therefore, the price of the commodity will not have any effect.

<https://timesofindia.indiatimes.com/business/india-business/explained-what-is-windfall-profit-and-why-has-it-been-imposed-on-oil-and-gas-companies/articleshow/93919507.cms>

**Q.2) With reference to cervical cancer consider the following statements:**

1. It is a cancer that is found anywhere in the cervix.
2. It is cause by Epstein-Barr virus.

**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

**Answer: A**

**Explanation –**

Cervical cancer is a type of cancer that occurs in the cells of the cervix — the lower part of the uterus that connects to the vagina.

Human papillomavirus (HPV), a sexually transmitted infection, play a role in causing most cervical cancer.

When exposed to HPV, the body's immune system typically prevents the virus from doing harm. In a small percentage of people, however, the virus survives for years, contributing to the process that causes some cervical cells to become cancer cells.

Source: <https://indianexpress.com/article/india/cervical-cancer-vaccine-ready-likely-to-be-part-of-govts-immunisation-programme-8125737/>



**Q.3) Consider the following statements with respect to anti-dumping duty:**

1. It is a tariff that a domestic government imposes on foreign imports that it believes are priced below fair market value.
2. It can reduce the international competition of domestic companies producing similar goods.
3. The International Monetary Fund (IMF) plays an important role in the regulation of anti-dumping measures.

**Which of the statements given above are correct?**

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

**Answer: B**

**Explanation –**

Statement 1: An anti-dumping duty is a protectionist tariff that a domestic government imposes on foreign imports that it believes are priced below fair market value.

Statement 2: In the long-term, anti-dumping duties can reduce the international competition of domestic companies producing similar goods.

Statement 3: The statement is incorrect. The World Trade Organization (WTO) plays an important role in the regulation of anti-dumping measures.

Source: [https://www.business-standard.com/article/economy-policy/govt-won-t-extend-anti-dumping-duty-on-ammonium-nitrate-from-3-nations-122090100579\\_1.html](https://www.business-standard.com/article/economy-policy/govt-won-t-extend-anti-dumping-duty-on-ammonium-nitrate-from-3-nations-122090100579_1.html)

**Q.4) With reference to the Plastic Waste Management (Amendment) Rules 2022 consider the following statements:**

1. It prohibits the manufacture and sale of all plastic bags.
2. Non-woven plastic bags have been exempted under this rule.

**Select the correct statement using the code given below:**

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

**Answer: D**

**Explanation –**

Statement 1: The statement is incorrect. It prohibits the manufacture, import, stocking, distribution, sale and use of plastic carry bags whose thickness is less than 75 microns.

Statement 2: The statement is incorrect. It mentions that plastic or PVC banners/hoardings should have more than 100 microns in thickness and non-woven plastic (polypropylene) must be more than 60 GSM.

Source: [https://www.thehindu.com/sci-tech/energy-and-environment/effecting-the-ban-on-single-use-plastics/article65836277.ece#:~:text=Since%20July%201%2C%202022%2C%20India,Nations%20Environment%20Assembly%20\(UNEA\)](https://www.thehindu.com/sci-tech/energy-and-environment/effecting-the-ban-on-single-use-plastics/article65836277.ece#:~:text=Since%20July%201%2C%202022%2C%20India,Nations%20Environment%20Assembly%20(UNEA))

**Q.5) Hinnamnor was recently seen in the news. The term is related to which of the following?**

- a) It is the new butterfly species found in Western Ghats.
- b) It is a phenomenon in which new species take over and dominate older species in the region.
- c) It is the strongest tropical storm of 2022 that occurred in the western Pacific Ocean.
- d) They are nomadic Turkic people native to China's Xinjiang province.

**Answer: C**

The strongest tropical storm of 2022, dubbed Super Typhoon 'Hinnamnor', has been barrelling across the western Pacific Ocean and is presently hurtling back towards the islands of Japan and South Korea, packing wind speeds of upto 241 kilometres per hour.

Source: [Indian Express](#)

**Q.6) Which of the following country is not participating in Exercise Vostok?**

- a) India
- b) The UK
- c) China
- d) Mongolia

**Answer: B**

Exercise Vostok is a multilateral strategic and command exercise hosted by Russia.

**Participating countries:** India, China, Belarus, Mongolia, Tajikistan and other countries are participating in the exercise.

Source: [The Hindu](#)

**Q.7) Which of the following statements is correct about Whale Shark?**

- 1. The whale shark is the largest fish on Earth and a keystone species in marine ecosystems.
- 2. The whale sharks are ovoviviparous.
- 3. The largest whale shark aggregation in India is along the Tamil Nadu coast.

**Select the correct answer using the codes given below;**

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

**Answer: C**

**Statement 1 is correct:** The whale shark (*Rhincodon typus*) is the largest fish on Earth and a keystone species in marine ecosystems.

**Statement 2 is correct:** They are ovoviviparous – meaning they give birth to live young rather than lay eggs – and can reach sexual maturity at around 10 years old.

**Statement 3 is incorrect:** The whale shark is distributed all along the Indian coast. However, the largest whale shark aggregation is along the Gujarat coast.

Source: [DTE](#)

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**Q.8)** With reference to **CERVAVAC Vaccine**, consider the following statements;

1. The vaccine is based on VLP (virus-like particles), similar to the hepatitis B vaccine.
2. The vaccine can clear Cervical Cancer even after it has happened.

**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

**Answer: A**

**Statement 1 is correct:** The vaccine is based on VLP (virus-like particles), similar to the hepatitis B vaccine.

**Statement 2 is incorrect:** This vaccine can prevent an infection, but cannot clear it once it happens.

Source: [PIB](#)

**Q.9)** With reference to **Naval Ensign**, consider the following statements;

1. A country cannot declare their national flag as Naval Ensign.
2. India changed its Naval Ensign only once since Independence.

**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

**Answer: D**

**Statement 1 is incorrect:** Every country's navy has its own ensign which can be the same as their country's flag or a distant one. For example, the US Navy's ensign is the same as its national flag.

**Statement 2 is incorrect:**

**1950-2001:** After 1950 when India became a Republic, the prefix 'Royal' was dropped from Royal Indian Navy(RIN) and it was rechristened as the Indian Navy.

– The ensign was also replaced with the Indian flag instead of Britain's flag over the St George's Cross. Now the naval ensign had an Indian flag at the top left corner of the St George's Cross over a white background.

**2001-2004:** The naval ensign was again modified in the year 2001 where the St George's Cross was dropped and a blue crest of the Indian Navy was set upon the white background with the Indian flag retaining its position.

– This modification did not go well as many complained that the blue of the naval crest was indistinguishable from the sky and the ocean.

**2004-2014:** Changes were made to the naval ensign in 2004 where the blue crest was dropped and St George's Cross was restored, with a National Emblem at the intersection of the cross.

**2014-2022:** In 2014, the ensign which is in use to date was customized to add *Satyamev Jayate* written in Devanagari script under the State Emblem of India at the intersection of St George's Cross.

Source: [Indian Express](#)

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**Q.10)** With reference to **Crime Multi Agency Centre (Cri-MAC) Portal**, consider the following statements;

1. The portal is implemented by the National Investigation Agency.
2. The portal share information on crime and criminals 24x7 with various law enforcement agencies.

**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

**Answer: B**

**Statement 1 is incorrect:** The portal is implemented by the National Crime Records Bureau(NCRB).

**Statement 2 is correct:** The portal share information on crime and criminals 24x7 with various law enforcement agencies and ensure a seamless flow of information among them.

Source: [The Hindu](#)

**PRELIMS**

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**Q.1) With reference to Group of Seven (G-7) countries consider the following statements:**

1. India is one of the member countries.
2. Build Back Better World is an economic initiative taken by G7 countries to counter Belt and Road Initiative of China.

**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

**Answer: B**

**Explanation –**

Statement 1: The statement is incorrect. Group of Seven include US, UK, Canada, Germany, France, Italy, Japan.

Statement 2: Build Back Better World (B3W) is an intended economic initiative taken by [Group of Seven](#) (G7) in June 2021. It is designed to provide an alternative to [China's Belt and Road Initiative](#) (BRI) for the infrastructure development of low- and middle-income countries.

Source: <https://timesofindia.indiatimes.com/business/international-business/g7-finance-chiefs-agree-on-russian-oil-price-cap-but-level-not-yet-set/articleshow/93956625.cms>

**Q.2) With reference to the Non-Proliferation Treaty (NPT) consider the following statements:**

1. **Its objective is to prevent the spread of nuclear weapons and weapons technology around the world.**
2. **India and Israel are the signatories to this treaty.**

**Select the correct statements using the code given below:**

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

**Answer: A**

**Explanation –**

Non-Proliferation Treaty (NPT) is an international treaty whose objective is to prevent the spread of nuclear weapons and weapons technology to promote cooperation in the peaceful uses of nuclear energy and to further the goal of achieving nuclear disarmament and general and complete disarmament.

Statement 2: India, Pakistan, Israel, South Sudan and North Korea are not the signatories of this treaty.

Source: <https://www.thehindu.com/opinion/lead/the-npt-is-beginning-to-look-shaky/article65842423.ece>

**Q.3) Consider the following statements:**

1. The average temperature required for growing is between 20°C and 37°C.
2. It needs a hot and humid climate.
3. It requires around 150-300 cm of rainfall.

**Which of the following crops require the above climatic conditions?**

- a) Millets
- b) Wheat
- c) Pulses
- d) Rice

**Answer: D**

**Explanation –**

Rice crop needs a hot and humid climate. It is best suited to regions which have high humidity, prolonged sunshine and an assured supply of water. The average temperature required throughout the life period of the crop ranges from 21 to 37° C. the Maximum temp which the crop can tolerate 40° C to 42° C. It requires more water than any other crop. As a result, paddy cultivation is done only in those areas where minimum rainfall is 115 cm. Although the regions are having average annual rainfall between 150—300 cm are the most suitable.

Source:<https://www.thehindu.com/sci-tech/agriculture/paddy-cultivation-sees-decline/article65841782.ece>

**Q.4) With reference to ‘Nano Urea’ seen in the news recently consider the followings statements:**

1. It is an indigenous urea developed by Food Corporation of India.
2. **It is a urea in the form of a nanoparticle.**
3. It increases crop productivity and reduces soil pollution.

**Which of the statements given above are correct?**

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

**Answer: B**

**Explanation –**

Nano urea is an indigenous urea developed by Indian Farmers Fertiliser Cooperative (IFFCO) Limited.

It is urea in the form of a nanoparticle to provide nitrogen to plants as an alternative to the conventional urea.

Its benefits are:

- It provides a targeted supply of nutrients to crops.
- Reduces the use of conventional urea.
- It increases crop productivity and reduces soil, water, and air pollution.

Source:<https://www.thehindu.com/news/national/nano-urea-fast-tracked-for-approval-despite-incomplete-trials/article65844419.ece>

**Q.5) With reference to Treaty on the Prohibition of Nuclear Weapons (TPNW), consider the following statements;**

1. All signatories of this treaty are nuclear have-nots and parties to the NPT.
2. The treaty is created due to frustration with the absence of progress on nuclear disarmament

**Which of the statements given above is/are incorrect?**

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

**Answer: D**

**Statement 1 is correct:** All 86 signatories are nuclear have-nots and parties to the NPT. The TPNW creates a new legal instrument. But the nuclear-haves and their allies ignored the treaty.

**Statement 2 is correct:** It is also called Ban Treaty. Frustrated by the absence of progress on nuclear disarmament, the nuclear have-nots successfully negotiated this Treaty in 2017.

Source: [ForumIAS](#)

**Q.6) Which of the following challenge/s is/are associated with aircraft carriers?**

1. The near-seas defence can be easily ensured from airbases on island territories.
2. Aircraft carriers are susceptible to enemy attack.
3. Aircraft carriers are logistically unviable.

**Select the correct answer using the codes given below;**

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

**Answer: D**

Critics were concerned about the relevance of aircraft carriers in the contemporary world. They say there is little point in spending billions for a carrier strike force to protect the Bay of Bengal or the Arabian Sea. This is because a) The near-seas defence can be easily ensured from airbases on India's island territories, b) Aircraft carriers are logistically unviable and highly vulnerable to new hypersonic weapons and disruptive technologies, c) Susceptibility to enemy attack: The flattop of aircraft carriers is defenceless(a virtual sitting duck) against modern-day underwater attacks, long-range strategic airpower and ballistic missiles; d) Prized target for enemies: In a conflict scenario, the destruction of the opponent's aircraft carrier is a priority mission.

Source: [ForumIAS](#)

## 10 PM Compilation for the Month of August, 2022

### Q.7) Consider the following statements regarding nuclear non-proliferation.

1. Only four countries have gone on to test and develop nuclear arsenals after enforcement of Nuclear Non-Proliferation Treaty (NPT).
2. The only surviving arms control treaty between Russia and the U.S. is the New START Treaty.
3. The Comprehensive Test Ban Treaty (CTBT) entered into force 10 years ago.

#### Which of the statements given above is/are correct?

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

#### Answer: C

**Statement 1 is correct:** In the last 50 years, only four more countries have gone on to test and develop nuclear arsenals. These are India, Israel, North Korea and Pakistan.

**Statement 2 is correct:** The only surviving arms control treaty between Russia and the U.S. is the New START Treaty. It imposes a ceiling on operational strategic nuclear weapons of 700 launchers and 1,550 warheads each. It expires in 2026 and there are no signs of any follow-on discussions.

**Statement 3 is correct:** Comprehensive Test Ban Treaty (CTBT) was concluded in 1996 but has yet to formally enter into force because two major powers, the U.S. and China, have yet to ratify it.

Source: [ForumIAS](#)

### Q.8) State of the Climate Report is released by which of the following organisations?

- a) United Nations Environment Programme (UNEP)
- b) Global Environment Facility (GEF)
- c) National Oceanic and Atmospheric Administration (NOAA)
- d) Intergovernmental Panel on Climate Change (IPCC)

#### Answer: C

The State of the Climate Report has been compiled by National Oceanic and Atmospheric Administration (NOAA) and published by the American Meteorological Society (AMS).

The report provides a comprehensive update on global climate and points out 2021 as a year of extremes and rapid swings bringing both record highs and lows.

Source: [DTE](#)



**Q.9) With reference to Central Civil Services (Conduct) Rules, consider the following statements;**

1. The rules bars Government servant from making an adverse criticism of any current or recent policy or action of the Central Government or a State Government.
2. Civil Service (Conduct) Rules supersede the right of free speech of government servants.

**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

**Answer: A**

**Statement 1 is correct:** Rule 9 says that “No Government servant shall make any statement of fact or opinion, which has the effect of an adverse criticism of any current or recent policy or action of the Central Government or a State Government”.

**Statement 2 is incorrect:** In Lipika Paul v. The State Of Tripura case, the court said that a civil servant(the petitioner) is not devoid of her right of free speech, a fundamental right which can be curtailed only by a valid law. However, this is subject to the civil servant not crossing the borders laid down in the Conduct Rules.

Source: [The Hindu](#)

**Q.10) With reference to Mars Oxygen In-Situ Resource Utilization Experiment(MOXIE), consider the following statements;**

1. It releases Earth’s oxygen into Mars surface and conducts experiments on it.
2. MOXIE will help to demonstrate a way that future explorers produce oxygen on Mars.

**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

**Answer: B**

**Statement 1 is incorrect:** MOXIE is a small box sent by the Massachusetts Institute of Technology(MIT) with NASA’s Perseverance rover. It has produced oxygen on Mars with components from the planet’s atmosphere.

**Statement 2 is correct:** MOXIE will help demonstrate a way that future explorers might produce oxygen from the Martian atmosphere for propellant and for breathing.

Source: [DTE](#)