

10 PM Current Affairs Quiz Compilation

24th to 29th October, 2022

PRELIMS

Q.1) Which of the following statement is not correct regarding Capital Adequacy Ratio (CAR)?

- a) The Capital Adequacy Ratio (CAR) of a bank is the ratio of its capital to its risk-weighted assets and current liabilities.
- b) It is used to protect depositors and promote the stability and efficiency of global financial systems.
- c) It is used by regulators to determine a bank's capital adequacy and to run stress tests.
- d) A bank with a high CAR is considered unsafe and it is unlikely to meet its financial obligations.

Answer: D

Explanation –

A bank with a high Capital Adequacy Ratio (CAR) is considered safe and it is likely to meet its financial obligations.

Source: [The Hindu](#)

Q.2) With reference to Sukapaika river consider the following statements:

1. It is one of the distributaries of the river Mahanadi.
2. The river originates in Maharashtra.

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 –

Sukapaika river is one of the distributaries of the river Mahanadi. It originates from Ayatur Village in Cuttack district and flows for 40 km before joining the Mahanadi River.

Source: [The Hindu](#)

Q.3) With reference to the Monetary Policy Committee (MPC) consider the following statements:

1. The aim of MPC is to improve the economic growth and the GDP of the country.
2. It is a five-member body and it is chaired by Finance Minister of India.

Select the correct statements using the codes given below:

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

Answer: A

Explanation –

Monetary Policy Committee (MPC) aims to improve the economic growth and the GDP of the country. It is a six-member body and it is chaired by the RBI Governor.

Source: [The Hindu](#)

Q.4) With reference to Kaziranga National Park consider the following statements:

1. It is a UNESCO World's Heritage Site.
2. It is located in Arunachal Pradesh.
3. It is one of the largest homes of migratory birds.

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: C

Explanation –

Kaziranga National Park is a UNESCO World's Heritage Site located in Assam. It is one of the largest homes of migratory birds.

Source: [The Hindu](#)

Q.5) Bacterial leaf blight (BLB) and Blast (leaf and collar) diseases, which are seen in the news recently, affect which of the following?

- a) Rubber plantations in Kerala
- b) Sugarcane plantations in North India
- c) Tea plantations in North East India
- d) Basmati rice varieties in India

Answer: D

Basmati Rice is a long-grained, aromatic rice that has been cultivated in Indo-Gangetic plains at the foothills of the Himalayas.

In modern India, this region is spread over Himachal Pradesh, Punjab, Haryana, Uttarakhand, Uttar Pradesh, Delhi and Jammu and Kashmir.

Around 75% of the export of Basmati Rice is to West Asian countries.

As the area of cultivation increased, these basmati rice varieties have become susceptible to two major diseases — bacterial leaf blight (BLB) and blast (leaf and collar) diseases caused by the fungus *Magnaporthe oryzae*.

Source: [Five new varieties to expand India's Basmati platter](#)

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

1. It is listed as Critically Endangered under IUCN.
2. It is the only species of *Allmania* genus discovered to date.

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 listed as Critically Endangered under IUCN.

Statement 2 is incorrect: It belongs to the genus *Allmania*. It is only the second species of this genus discovered to date.

10 PM Compilation for the Month of October, (Fourth Week) 2022

The first species, *Allmania nodiflora* was originally published under the genus *Celosia* as *Celosia nodiflora* in 1753. Specimens found in Ceylon (Sri Lanka) were first described as *Allmania nodiflora* in 1834.

Source: [Second Species of the Genus Allmania](#)

Q.7) Which of the following is not part of Tyranny of the rocket equation?

- The destination in space a rocket is headed towards.
- The kind of fuel mix that is being used.
- The size of the payload.
- Geographic location of launching rocket.

Answer: D

The size of a launch vehicle is dictated by **1)** The destination in space it is headed towards, **2)** The kind of fuel mix that is being used (solid, liquid, cryogenic) and **3)** The size of the payload. – The choice of any two of these variables places severe restrictions on the flexibility of the third, which is popularly referred to as the “tyranny of the rocket equation”.

Source: [The heaviness of rockets, why it matters in space flight](#)

Q.8) With reference to Bhoota Kola, consider the following statements;

- is an annual folk ritual of Tulu-speaking people in Karnataka.
- It is performed by a priest who is considered as a god for his/her lifetime.

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 vista of three looming towers made of interstellar dust and gas.

Statement 2 is incorrect: Bhootada Kola is performed by a trained person who is believed to have temporarily become a god himself.

The performer displays an aggressive outlook, dances fiercely and performs multiple rituals.

This performer is feared and respected in the community and is believed to give answers to people’s problems on behalf of god. Drums and music give company to the dancing and pooja rituals.

Source: [What is the controversy over the practice of ‘bhoota kola’](#)

Q.9) With reference to the Sandalwood Spike disease, consider the following statements;

- The disease can transmit through seeds of infected trees through the presence of disease-causing bacteria.
- There is no cure as of now for the disease.

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 disease can transmit through seeds of infected trees through the presence of disease-causing bacteria called *Phytoplasma*.

10 PM Compilation for the Month of October, (Fourth Week) 2022

Statement 2 is correct: There is no cure as of now for the disease. Hence, presently, there is no option but to cut down and remove the infected tree to prevent the spread of the disease.

Source: [Sandalwood Spike Disease \(SSD\)](#)

Q.10) Which of the following is/are the benefits of Sustainable Alternative Towards Affordable Transportation (SATAT) initiative?

1. Increase farmers' income.
2. Reduce the price of Compressed Bio Gas (CBG).
3. Reduce dependence on chemical fertilizers.

Select the correct answer from the codes given below;

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

Answer: D

The GoI has come up with Sustainable Alternative Towards Affordable Transportation (SATAT) scheme and allowed a private company to set up bio-CNG project in Punjab.

The Government of India has set a 5% CBG production target under the SATAT scheme. This target can be achieved with 30% of rice straw produced as suggested by FAO.

The scheme will **a)** Increase local entrepreneurship, increase farmers' income and reduce the open burning of rice straw, **b)** Help in producing CBG at ₹46 per kg and paddy straw from one acre of the crop can yield energy output (CBG) worth more than ₹17,000 which in turn will benefit stakeholders involved in it, **c)** The fermented organic manure from the plant (CBG) will be useful as compost to replenish soils heavily depleted of organic matter and **d)** Reduce dependence on chemical fertilizers.

Source: [A renewable energy revolution, rooted in agriculture](#)

PRELIMS

Q.1) With reference to DMH-11 (GM Mustard) consider the following statements:

1. It was developed with the aim of reducing India's demand for edible oil imports.
2. It has been created through transgenic technology that involves barnase and barstar gene system.

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: GM Mustard was developed with the aim of reducing India's demand for edible oil imports.

Statement 2: It has been created through transgenic technology that involves barnase and barstar gene system.

Source: [The Indian Express](#)

Q.2) Consider the following statements:

1. Section 22 of The Reserve Bank of India Act, 1934 gives RBI the sole right to issue banknotes in India.
2. It is the exclusive right of the central government to make changes in the design and form of bank notes and coins.

Select the correct statement 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: Section 22 of The Reserve Bank of India Act, 1934 gives RBI the sole right to issue banknotes in India.

Statement 2: The statement is incorrect. Changes in the design and form of bank notes and coins are decided by the Reserve Bank of India (RBI) and the central government.

Source: [The Indian Express](#)

Q.3) With reference to satellite phones consider the following statements:

1. Satellite phones rely on satellites rather than cell phone towers.
2. Satellite phones can work in remote areas where there are no cell phone towers.
3. It is legal to carry satellite phones in India.

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 –

Satellite phones rely on satellites rather than cell phone towers. Satellite phones can work in remote areas where there are no cell phone towers. It's not legal to carry satellite phones in India without permission.

Source: [The Indian Express](#)

Q.4) Consider the following statement with respect to 'Coastal Erosion':

1. Coastal erosion is the eroding of beach sand due to wind and wave action.
2. India has not witnessed coastal erosion till now.

Select the correct statement 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: Coastal erosion is the eroding of beach sand due to wind and wave action.

Statement 2: The statement is incorrect. India has witnessed the coastal erosion along Puducherry's coastline and around 57% of Puducherry's coast was eroding.

Source: [The Hindu](#)

Q.5) Which of the following byproducts can be produced from biogas?

1. Methane
2. Hydrogen
3. Liquefied biogas (LBG)

Select the correct answer from the codes given below;

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

Answer: D

Biogas can be converted to produce numerous sustainable transportation fuels.

Methane

The removal of unwanted components like carbon dioxide, hydrogen sulphide and moisture from raw biogas yields pure methane (over 97% content). Some of the common methods to purify

10 PM Compilation for the Month of October, (Fourth Week) 2022

biogas include water scrubbing, membrane separation, pressure swing adsorption and adsorption.

Liquefied biogas (LBG)

It is obtained by liquefying the biogas-derived methane by cooling it at -162 degrees Celsius. It has a higher energy density that lowers the storage space requirements of CBG.

At atmospheric pressure, the energy density of liquid methane is roughly 600 times more than that of gaseous methane and 2.5 times greater than that of methane at 250 bar.

Hydrogen

Gasification of biogas is performed by limiting the amount of oxygen and steam present in the reaction and heating the bio-methane to high temperatures (usually over 600°C). As a result of this process, Syngas a mixture of hydrogen and carbon monoxide is created. The hydrogen produced after the removal of carbon monoxide could be used in fuel cells to generate power.

Source: [Why producing CBG, LBG, hydrogen, methanol from biogas can be beneficial](#)

Q.6) Barnase-barstar system, which is seen in the news recently, is related to which of the following?

- Creating environmental buffer reduce climate impacts.
- Launching rockets more than 8 tonnes.
- Hybrid seed production technology.
- Artificial communication technologies.

Answer: C

Barnase-barstar system is an indelible technique to produce hybrid seeds in self-pollinated crops. The scientists have deployed this technology to produce Genetically Modified(GM) mustard variety DMH (Dhara Mustard Hybrid)-11.

The barnase gene codes for a protein that impairs pollen production and renders the plant into which it is incorporated male-sterile.

This plant is then crossed with a fertile parental line containing the barstar gene that blocks the action of the barnase gene.

The resultant F1 progeny is both high-yielding and also capable of producing seed/ grain.

Source: [GEAC gives its nod for commercial cultivation of GM mustard yet again](#)

Q.7) With reference to NavIC (Navigation with Indian Constellation), consider the following statements;

- Currently (NavIC) only provides short code signals but not the long code signals.
- Currently, NavIC satellites orbit the earth in a geostationary or geosynchronous (GEO) orbit and Medium Earth Orbit(MEO).

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: There are a Long Code and Short Code signals. Currently (NavIC) only provides short code. Long Code signals provide for the use of the strategic sector. Further, it will also prevents the signal from being breached.

Statement 2 is incorrect: Currently, NavIC satellites orbit the earth in a geostationary or geosynchronous (GEO) orbit or about 36,000 km from the earth. Its reach is only 1,500 km beyond Indian territory.

10 PM Compilation for the Month of October, (Fourth Week) 2022

To make NavIC global, India needs satellites in Medium Earth Orbit(MEO). Hence, ISRO is planning to launch satellites in MEO.

Note: MEO orbits occupy a space between GEO and Low Earth Orbit (LEO) or about 250-2,000 km from earth.

Source: [ISRO to boost NavIC, widen user base of location system](#)

Q.8) With reference to unreinforced masonry(URM), consider the following statements;

1. URM buildings have been widely adopted due to inexpensiveness and usage of locally available construction materials.
2. URM buildings do not damage or collapse during an earthquake.

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: Historically, most buildings technically called unreinforced masonry(URM) were not built using modern building codes.

URM buildings have traditionally been widely adopted worldwide due to inexpensive and locally available construction materials.

Statement 2 is incorrect: Developing countries located in earthquake-prone regions, unreinforced brick masonry(URBM) has been a common practice in urban, semi-urban and rural areas of India.

These buildings are much more likely to experience damage or collapse during an earthquake.

Recently, researchers from the Indian Institute of Technology, Kanpur have developed a technology called semi-confined unreinforced brick masonry(SC-URBM).

The technology can resolve the problem of the spread of settlements in earthquake-prone areas with constructions that have been built without following earthquake-preventive building codes.

Source: [New technology for retrofitting non-earthquake-resistant buildings can prevent major damage in old settlements](#)

Q.9) With reference to the data-network-activities loop or the DNA loop, consider the following statements;

1. Under this, the stock of user data are utilized as input to offer a range of services to increase user activity.
2. The loop makes big tech firms with an established platform to have an advantage when they venture into financial services.

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 business model of big techs rests on enabling direct interactions among a large number of users.

An essential by-product of their business is the stock of user data. The data are then utilized as input to offer a range of services that exploit natural network effects, generating further user

10 PM Compilation for the Month of October, (Fourth Week) 2022

activity. Increased user activity then completes the circle, as it generates yet more data. This has been called as “data-network-activities” loop – or the “DNA” loop.

Statement 2 is correct: The DNA loop is self-reinforcing. More data generates stronger network effects, which elicit more activity, leading to yet more data. This means that big tech firms with an established platform have an advantage when they venture into financial services.

Source: [Ambani will use finance to tighten DNA loop. Here's how](#)

Q.10) Khangkhui cave was located in which of the following state?

- a) Kerala
- b) Maharastra
- c) Manipur
- d) Assam

Answer: C

Khangkhui is a natural limestone cave about 15 km from Ukhrul, the headquarters of Ukhrul district in Manipur.

Excavations carried out by Manipur's archaeologists had revealed the cave was home to Stone Age communities.

The cave was also used as a shelter by the local people during World War 2 after the Japanese forces advanced to Manipur and the adjoining Nagaland.

Source: [Bats evicted from Manipur cave for tourism, says study](#)

PRELIMS

Q.1) With reference to International Energy Agency (IEA) consider the following statements:

1. It is an autonomous intergovernmental organization to ensure reliable, affordable and clean energy for its member countries.
2. World Energy Outlook Report is published by IEA.
3. It's headquartered at Geneva, Switzerland.

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 -

International Energy Agency (IEA) is an autonomous intergovernmental organization to ensure reliable, affordable and clean energy for its member countries. World Energy Outlook Report is published by IEA. Statement 3 is incorrect. It's headquartered at Paris, France.

Source: [The Times of India](#)

Q.2) With reference to Jal Jeevan Mission (JJM) consider the following statements:

1. It aims to provide a Functional Household Tap Connection (FHTC) to every rural household by 2024.
2. The scheme is being only funded by the central government.
3. This mission is being implemented by Jal Shakti Ministry.

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: C

Explanation -

Statement 1: Jal Jeevan Mission (JJM) aims to provide a Functional Household Tap Connection (FHTC) to every rural household by 2024.

Statement 2: The statement is incorrect. The scheme is funded by both Central and state governments.

Statement 3: JJM is being implemented by Jal Shakti Ministry.

Source: [DNA](#)

Q.3) With reference to 'dirty bombs' seen in the news recently consider the following statements:

1. It includes explosives and radioactive material.
2. It is cheaper and easier to transport compared to nuclear weapons.
3. It is more destructive than nuclear bombs.

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 -

A dirty bomb contains conventional explosives like dynamite and radioactive materials such as uranium, which makes them cheaper and easier to transport when compared with nuclear weapons. When exploded, the material inside the bomb is scattered through the air. Although dangerous, it is not as destructive as a nuclear bomb.

Source: [Business Standard](#)

Q.4) With reference to 'Surrogacy Act, 2021' consider the following statements:

1. The act provides that surrogate mother should only be the relative of the couple looking for surrogate child.
2. It provides that the couple who has adopted child can opt for surrogacy.

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: Surrogacy Act, 2021 provides that surrogate mother should only be the relative of the couple looking for surrogate child. She should have been married with a child of her own and must be between 25 and 35 years, of age. She can be a surrogate mother only once.

Statement 2: The statement is incorrect. The Act says that there should not be any surviving child (biological, adopted or surrogate) of the couple looking for surrogacy child.

Source: [The Indian Express](#)

Q.5) Homing All the Way Killer, which is seen in the news recently, is related to which of the following?

- a) A Climate change document highlighting the impacts of climate change on human being.
- b) It is a medium-range, surface-to-air guided missile that provides air defence coverage against low-to-medium-altitude aircraft.
- c) It is a new dirty bomb alleged to be present in Ukraine.
- d) It is an Artificial communication technology that can be performed by robots easily.

Answer: B

HAWK stands for 'Homing All the Way Killer'.

10 PM Compilation for the Month of October, (Fourth Week) 2022

It is a medium-range, surface-to-air guided missile that provides air defence coverage against low-to-medium-altitude aircraft.

It has been developed by Raytheon, a US-based aerospace and defense company.

It initially entered service with the US army in 1959. It has been superseded by the Patriot missile defense system.

Source: [This Word Means | HAWK air defence equipment](#)

Q.6) With reference to Pradhanmantri Sangrahalaya, consider the following statements;

1. It is a narrative record of how each Prime Minister of India has contributed to the development of our nation over the last 75 years.
2. It is located at Delhi's Teen Murti Complex.

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 Pradhanmantri Sangrahalaya is a tribute to every Prime Minister of India since Independence and a narrative record of how each one has contributed to the development of our nation over the last 75 years.

Statement 2 is correct: It is located at Delhi's Teen Murti Complex.

The logo of the museum shows hands holding the dharma chakra, symbolizing the nation and democracy.

Source: [Pradhanmantri Sangrahalaya receives above 1 lakh visitors upto 30th September](#)

Q.7) Mekong-Ganga Cooperation is an initiative of six countries, which of the following country/countries is/are not a participant/participants of it?

1. Bangladesh
2. Cambodia
3. China
4. Myanmar
5. Thailand

Select the correct answer using the code given below:

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

Answer: C

The Mekong-Ganga Cooperation (MGC) is an initiative by six countries – India and five ASEAN countries, namely, Cambodia, Lao PDR, Myanmar, Thailand and Vietnam for cooperation in tourism, culture, education, as well as transport and communications. It was launched in 2000 in Vientiane, Lao PDR.

Both the Ganga and the Mekong are civilizational rivers and the MGC initiative aims to facilitate closer contacts among the people inhabiting these two major river basins.

Source: [PIB](#)

Q.8) With reference to Site-Directed Nuclease (SDN), consider the following statements;

1. SDN 1 introduces changes in the host genome's DNA through small insertions/deletions without the introduction of foreign genetic material.
2. SDN 2 involves larger DNA elements or full-length genes of foreign origin which makes it similar to Genetically Modified Organisms (GMO) 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: A

Depending on the nature of the genome editing that is carried out, the process is divided into three categories — **Site-Directed Nuclease(SDN 1), SDN 2 and SDN 3:**

Statement 1 is correct: SDN 1 introduces changes in the host genome's DNA through small insertions/deletions without the introduction of foreign genetic material.

Statement 2 is incorrect: In SDN 2, the edit involves using a small DNA template to generate specific changes. Both these processes do not involve alien genetic material and the end result is indistinguishable from conventionally bred crop varieties.

The SDN3 process involves larger DNA elements or full-length genes of foreign origin which makes it similar to Genetically Modified Organisms (GMO) development.

Source: [Notification of Standard Operating Procedures\(SOPs\) for regulatory review of Genome Edited Plants under SDN-1 and SDN-2 categories, 2022](#)

Q.9) With reference to gauthans, consider the following statements;

1. It is an innovative experiment to tackle stubble burning.
2. It is undertaken by the Punjab 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: A

Statement 1 is correct: It is an innovative experiment to tackle stubble burning. A gauthan is a dedicated five-acre plot, held in common by each village, where all the unused stubble is collected through parali daan (people's donations) and is converted into organic fertilizer by mixing with cow dung and a few natural enzymes.

This model has also generated employment among rural youth. The government supports the transportation of stubble from the farm to the nearest gauthan. The state has successfully developed 2,000 gauthans.

Statement 2 is incorrect: It is undertaken by the Chhattisgarh government.

Source: [CAQM holds review meetings to address stubble burning](#)

10 PM Compilation for the Month of October, (Fourth Week) 2022

Q.10) Which of the following statement is not correct about Alps Mountains?

- a) The Alps are young fold mountains with rugged relief and high conical peaks.
- b) Monte Rosa is the highest peak in the Alps.
- c) Mount Dom is known as one of the “easier” tall peaks in the Alps to summit because of its straightforward routes.
- d) Only Switzerland and Austria can be considered true Alpine countries.

Answer: B

Mont Blanc is the highest peak in the Alps and in Europe, reaching a lofty 4,804 meters above sea level. It is located in the Graian Alps and lies within France, Switzerland, and Italy.

The Alps form part of France, Italy, Switzerland, Germany, Austria, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Serbia, and Albania.

Source: [Glaciers in the Alps are melting faster than ever — and 2022 was their worst summer yet](#)

PRELIMS

Q.1) With reference to 'Tambo Art' consider the following statements:

1. The art uses rice fields as a canvas to create design works by planting rice with different colored leaves and grain heads.
2. This art form has been originated in China.

Select the correct statements using the codes given below:

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

Answer: A

Explanation -

Tambo Art uses rice fields as a canvas to create design works by planting rice with different colored leaves and grain heads and it has been originated in Japan.

Source: [The Hindu](#)

Q.2) With reference to 'African Swine Fever (ASF)' consider the following statements:

1. It is a viral disease spread amongst pigs with 100 percent mortality rate.
2. It is a zoonotic disease.
3. There is currently no effective vaccine against ASF.

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: C

Explanation -

African Swine Fever (ASF) is a viral disease spread amongst pigs with 100 percent mortality rate. Statement 2 is incorrect. It is a non-zoonotic disease. There is currently no effective vaccine against ASF.

Source: [India Today](#)

Q.3) With reference to European Union consider the following statements:

1. All countries of Europe are its members.
2. It was created to bind the nations of Europe closer together for the economic, social, and security welfare of all.

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 -

10 PM Compilation for the Month of October, (Fourth Week) 2022

The European Union (EU) is a political and economic grouping of 27 countries committed to shared democratic values. The European Union was created to bind the nations of Europe closer together for the economic, social, and security welfare of all.

Source: [The Hindu](#)

Q.4) Consider the following statements:

1. The circular economy is a solution framework that tackles global challenges like climate change and pollution.
2. Circular economy focuses on reusing and recycling of natural resources whereas natural resources in a linear economy is turned into wastes.

Select the correct statements using the codes given below:

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

Answer: C

Explanation –

Statement 1: The circular economy is a solution framework that tackles global challenges like climate change, biodiversity loss, waste, and pollution.

Statement 2: Circular economy focuses on reusing and recycling of natural resources whereas natural resources in a linear economy is turned into wastes.

Source: [Live Mint](#)

Q.5) Exercise Garuda is a bilateral Air force exercise between India and which of the following country?

- a) Italy
- b) Singapore
- c) France
- d) Australia

Answer: C

Indian Air Force(IAF) and French Air and Space Force(FASF) are participating in a bilateral exercise named 'Garuda VII' at Air Force Station Jodhpur.

The first edition of the exercise was held in 2003. This is the seventh edition of the bilateral exercise.

Source: [EXERCISE GARUDA - VII AT AIR FORCE STATION JODHPUR](#)

Q.6) With reference to viral spillover risk, consider the following statements;

1. It is a process of viruses infecting a new host from a reservoir host by being able to transmit sustainably in a novel host.
2. Climate change will increase viral spillover risk more.

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

10 PM Compilation for the Month of October, (Fourth Week) 2022

Statement 1 is correct: Viruses may infect a new host from a reservoir host (in which it usually resides) by being able to transmit sustainably in a novel host – a process defined as ‘viral spillover’.

Statement 2 is correct: Researchers collected samples from Lake Hazen in Canada, the world's largest High Arctic lake by volume and has the largest freshwater ecosystem.

Based on the study, they concluded that climate change is melting glaciers and this could create a possibility of the emergence of new viruses trapped in the ice for years.

The hosts (humans or animals) can move to previously inhabitable regions and can come in contact with such pathogens which could cause viral spillover.

Source: [What ‘viral spillover risk’ means, and how it could lead to new pandemics](#)

Q.7) Which of the following is/are the benefits of Internationalisation of the rupee?

1. Mitigates currency risk for Indian businesses.
2. Reduces the need for holding foreign exchange reserves.
3. Make non-residents having Rupee holdings to come and stay in India permanently.

Select the correct answer from the codes given below;

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

Answer: A

Statement 1 and 2 are correct:

The advantages of the Internationalization of the Rupee are

Firstly, the use of the Rupee in cross-border transactions mitigates currency risk for Indian businesses. Protection from currency volatility not only reduces the cost of doing business, but it also enables better growth of the business, improving the chances for Indian business to grow globally.

Secondly, it reduces the need for holding foreign exchange reserves. While reserves help manage exchange rate volatility and project external stability, they impose a cost on the economy.

Thirdly, reducing dependence on foreign currency makes India less vulnerable to external shocks. For example, during phases of monetary tightening in the US and the strengthening of dollar, excessive foreign currency liabilities of domestic business results in a de facto domestic tightening. Reduced exposure to currency risk would substantially mitigate the pain of the reversal of capital flows.

Statement 3 is incorrect: Non-resident holdings of Rupees could exacerbate the pass-through of external stimulus to domestic financial markets, increasing volatility. For instance, a global risk-off phase could lead non-residents to convert their Rupee holdings and move out of India.

Source: [Internationalisation of Rupee](#)

Q.8) With reference to Singapore-India Maritime Bilateral Exercise (SIMBEX), consider the following statements;

1. The exercise began in 1980 and was initially known as Exercise Panther.
2. SIMBEX is the Indian Navy's longest uninterrupted bilateral maritime exercise with any foreign navy.

Which of the statements given above is/are correct?

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

10 PM Compilation for the Month of October, (Fourth Week) 2022

Answer: B

Statement 1 is incorrect: SIMBEX is a joint maritime bilateral exercise between Indian and Singapore navies.

The exercise began in 1994 and was initially known as Exercise Lion King.

Statement 2 is correct: SIMBEX is the Indian Navy's longest uninterrupted bilateral maritime exercise with any foreign navy.

Source: [Singapore-India Maritime Bilateral Exercise 'Simbex' - 2022](#)

Q.9) Emissions Gap Report was released by which of the following organisation?

- a) Earth System Governance Project (ESGP)
- b) Global Environment Facility (GEF)
- c) Global Alliance on Health and Pollution (GAHP)
- d) United Nations Environment Programme(UNEP)

Answer: D

The 'Emissions Gap Report 2022' has been released by United Nations Environment Programme(UNEP). This is the 13th edition of the report.

Source: [Emissions in India, 6 other nations top pre-Covid levels](#)

Q.10) Which of the following statement is not correct about the evolution of the Coinage System?

- a) The earliest of dynastic coins relate to those of the Indo-Greeks, the Saka-Pahlavas and the Kushans.
- b) The Saka coinage of the Western Kshatrapas are perhaps the earliest dated coins, the dates being given in the Saka era.
- c) Satavahana's depicted Oesho (Shiva), moon deity Miro and Buddha in their coinage.
- d) Gupta coinage depicted the king on the obverse and a deity on the reverse.

Answer: C

Kushans, who hailed from the Central Asian region were the first to use the image of Goddess Lakshmi on their coins, along with Ardochsho, the Iranian Goddess of wealth. They also depicted Oesho (Shiva), moon deity Miro and Buddha in their coinage.

Source: [Coinage System in India](#)