

10 PM Compilation for the Month of February, (Fifth Week) 2023

PRELIMS

Q.1) With reference to “Bor Thekera Tree” consider the following statements:

1. They are endemic to the Western Ghats.
2. They are used for medicinal purposes.

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: B

Explanation –

Statement 1 is incorrect. They are endemic to north-eastern parts of India.

Statement 2 is correct. They are used for various medicinal purposes and also have potential to prevent heart disease.

Source: [FORUMIAS](#)

Q.2) With reference to National Mobile Monitoring System (NMMS) app consider the following statements;

1. It has been launched by the Ministry of Agriculture.
2. It is applicable for the MGNREGA workers for all the States/Union Territories.

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: B

Explanation –

Statement 1 is incorrect. NMMS app has been launched by the Ministry of Rural Development.

Statement 2 is correct. It is applicable for the MGNREGA workers for all the States/ Union Territories.

Source: [FORUMIAS](#)

Q.3) With reference to India’s Bioeconomy sector, consider the following statements:

1. India’s bioeconomy is likely to decline by the end of this decade.
2. Biotech-KISAN is an initiative of the government to boost Bio-Economy.

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: B

Explanation –

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Statement 1 is incorrect. India's bioeconomy is likely to touch USD 150 billion by 2025 and over USD 300 billion by 2030.

Statement 2 is correct. Biotech-KISAN is an initiative of the government to boost Bio-Economy.

Source: [ForumIAS](#)

Q.4) With reference to World Sustainable Development Summit (WSDS), consider the following statements:

1. It is organized every year by the Ministry of Ministry of Environment, Forest and Climate Change (MoEFCC).
2. It aims to bring together global leaders and thinkers in the fields of sustainable development, energy and environment sectors on a common platform.

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: B

Explanation –

Statement 1 is incorrect. WSDS is the annual flagship initiative of The Energy and Resources Institute (TERI). It was earlier known as Delhi Sustainable Development Summit.

Statement 2 is correct. WSDS aims to bring together global leaders and thinkers in the fields of sustainable development, energy and environment sectors on a common platform.

Source: [ForumIAS](#)

Q.5) With reference to Active Pharmaceutical Ingredient (API), consider the following statements:

1. It is the biologically active component of a drug product that produces the intended health effects.
2. Raw materials for most of the API intermediates are currently not produced in India.
3. Indian APIs are on an average 20% less expensive than those manufactured in China.

Which of the statements given above is/are correct?

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

Answer: A

Explanation –

Statement 1 and 2 are correct. API is the biologically active component of a drug product that produces the intended health effects. Raw materials for most of the API intermediates are currently not produced in India.

Statement 3 is incorrect. Indian APIs are on an average 20% more expensive than those manufactured in China.

Source: [ForumIAS](#)

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Q.6) Consider the following statements:

1. Israel is one of the top suppliers of defence equipment to India.
2. The US is India's largest trading partner.
3. The United Kingdom is one of the member nations of I2U2.

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 –

Statement 1 and 2 are correct. Israel is one of the top suppliers of defence equipment to India. The US is India's largest trading partner and second-largest foreign investor.

Statement 2 is incorrect. I2U2 includes India, Israel, the United States (US), and the United Arab Emirates (UAE).

Source: [ORF](#)

Q.7) Consider the following statements:

1. Amongst the cities of the world, Mumbai has the highest GDP.
2. Global Liveability Index 2022 is produced annually by the Economic Intelligence Unit (EIU).

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: B

Explanation –

Statement 1 is incorrect. Tokyo has the highest city GDP in the world.

Statement 2 is correct. Global Liveability Index 2022 is produced annually by the Economic Intelligence Unit (EIU).

Source: [The Print](#)

Q.8) With reference to “eSanjeevani app” consider the following statements:

1. It is a browser-based platform-independent application that allows for both doctor-to-doctor and patient-to-doctor teleconsultations.
2. The consultation on the app generates e-prescription that is used to obtain medications.

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 –

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Statement 1 and 2 are correct. It is a browser-based platform-independent application that allows for both doctor-to-doctor and patient-to-doctor teleconsultations. The consultation on the app generates e-prescription that is used to obtain medications.

Source: [The Hindu](#)

Q.9) With reference to 'Lagrange point (L-point)' consider the following statements:

1. These are a special kind of orbit used by satellites to get from one orbit to another.
2. These points in space can be used by spacecraft to reduce fuel consumption needed to remain in position.
3. The most used L-points are L1 and L2.

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 –

Statement 1 is incorrect. Lagrange point are positions in space where objects sent there tend to stay.

Statements 2 and 3 are correct. Lagrange point can be used by spacecraft to reduce fuel consumption needed to remain in position. The most used L-points are L1 and L2.

Source: [The Hindu](#)

Q.10) Which of the statements regarding "Blue Food" is correct?

- a) Blue foods generate lower emissions compared to terrestrial meat.
- b) Blue foods are the foods obtained after using inorganic fertilisers.
- c) Consumption of blue food can increase the risk of cardiovascular diseases.
- d) Blue food refers to the crops obtained while practicing sustainable farming technique.

Answer: A

Explanation – Blue foods generate lower emissions compared to terrestrial meat. It is the food derived from aquatic animals, plants or algae that are caught or cultivated in freshwater and marine environments.

Source: [DTE](#)

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PRELIMS

Q.1) With reference to “Mad Cow Disease” consider the following statements:

1. It affects the central nervous system of adult cattle.
2. It is also known as Bovine Spongiform Encephalopathy (BSE).
3. India will be the first country to develop vaccine for Mad Cow Disease.

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 –

Statement 1 and 2 are correct. Mad Cow Disease affects the central nervous system of adult cattle. It is also known as Bovine Spongiform Encephalopathy (BSE).

Statement 3 is incorrect. There is no treatment and no vaccine to prevent BSE. And there India will not be the first country,

Source: [ForumIAS](#)

Q.2) Consider the following statements with reference to ‘Banjaras’:

1. They speak Gor Boli.
2. Chari is the traditional dance forms of the banjara people.
3. Madai is an important festival celebrated by Banjaras.

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 –

Statement 1 and 2 are correct. Banjaras speak Gor Boli. Fire dance and Chari are the traditional dance forms of the banjara people.

Statement 3 is incorrect. Banjara people celebrate the festival of Teej during Shravanam (in the month of august). In this festival young unmarried Banjara girls pray for a good groom.

Source: [ForumIAS](#)

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Q.3) Consider the following statements:

1. ALH Helicopter is exported by India.
2. Indonesia has been the biggest importer of Indian arms in the past few years.
3. India is among the top 25 exporters of major arms.

Which of the statements given above is/are correct?

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

Answer: D

Explanation –

Statement 1 and 3 are correct. The major defence items being exported are Personal Protective items, Offshore Patrol Vessels, ALH Helicopter, SU Avionics, Bharati Radio, Coastal Surveillance Systems, Kavach Launcher, Spares for Radar, Electronic System and Light Engineering Mechanical Parts among others. According to a Stockholm International Peace Research Institute (SIPRI) report 2022, India is among the top 25 exporters of major arms.

Statement 2 is incorrect. Myanmar has been the biggest importer of Indian arms at 50 per cent during the 2017-2021 period, followed by Sri Lanka at 25 per cent and Armenia at 11 per cent.

Source: [ForumIAS](#)

Q.4) With reference to 'Mission Shakti' consider the following statements:

1. It has been launched by the Ministry of Culture.
2. The aim of the mission is to spread awareness about the cultural heritage of India amongst the India's diaspora.

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: D

Explanation –

Statement 1 and 2 are incorrect. Mission Shakti has been launched by the Ministry of Women Child Development (MWCD). It is a mission mode scheme aimed at strengthening interventions for women's safety, security and empowerment.

Source: [ForumIAS](#)

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Q.5) Consider the following statements:

1. In spring, air mostly flows from east to northeast in India.
2. The upper atmospheric westerly winds come to India from the Atlantic Ocean during spring.
3. A region experiences a heat wave if its ambient temperature deviates by at least 4.5-6.4°C from the long-term average.

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 –

Statement 1 is incorrect. In spring, India has air flowing in from the west to northwest.

Statement 2 and **3** are correct. The upper atmospheric westerly winds come to India from the Atlantic Ocean during spring. A region experiences a heat wave if its ambient temperature deviates by at least 4.5-6.4°C from the long-term average.

Source: [ForumIAS](#)

Q.6) With reference to Surya Nutan Cooker, consider the following statements:

1. It has been developed by Gas Authority of India Limited (GAIL).
2. It can work on both solar and auxiliary energy sources simultaneously.
3. It minimizes radiative and conductive heat losses.

Which of the statements given above is/are correct?

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

Answer: D

Explanation –

Statement 1 is incorrect. Surya Nutan Cooker has been developed by Indian Oil Corporation (IOC).

Statement 2 and **3** are correct. Surya Nutan Cooker can work on both solar and auxiliary energy sources simultaneously. It minimizes radiative and conductive heat losses.

Source: [forumIAS](#)

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Q.7) With reference to “Women Entrepreneurship Platform (WEP)” consider the following statements:

1. It is a unified access portal which brings together women from different parts of India to build a nurturing ecosystem that enables them to realize their entrepreneurial aspirations.
2. It has been launched by NITI Aayog.

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 and 2 are correct. WEP is a unified access portal which brings together women from different parts of India to build a nurturing ecosystem that enables them to realize their entrepreneurial aspirations. It has been launched by NITI Aayog.

Source: [Mint](#)

Q.8) With reference to the history of India, consider the following statements:

1. Mumbai was the first city where electric tram was first introduced.
2. Today, Kolkata is the only city which operates tram.
3. The first horse-drawn trams entered service in the then British capital of Calcutta.

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 –

Statement 1 is incorrect. The first electric tram was introduced in Chennai/Madras.

Statement 2 and 3 are correct. Today, Kolkata is the only city which operates tram. The first tram was horse driven tram and it was introduced in Calcutta.

Source: [The Indian Express](#)

Q.9) With reference to the ‘Fisheries sector in India’ consider the following statements:

1. India is the second major producer of fish through aquaculture in the world.
2. Andhra Pradesh is the leading state in marine fish production.
3. India is the largest fish exporter in the world.

Which of the statements given above is/are correct?

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

Answer: A

Explanation –

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Statement 1 correct. India is the second major producer of fish through aquaculture in the world.

Statement 2 and 3 are incorrect. Gujarat is the leading state in marine fish production, sharing 16.67 per cent of the country's total marine fish production. India is the 4th largest exporter of fish in the world. The exports from India contribute 7.7% to global fish production.

Source: [ForumIAS](#)

Q.10) With reference to Millet International Initiative for Research and Awareness (MIRA) consider the following statements:

1. It is aimed at connecting millet research organisations across the world while also supporting research on these crops.
2. Its secretariat will be placed in Delhi.
3. It will be funded by the World Bank.

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

Explanation –

Statement 1 and 2 are correct. MIRA is aimed at connecting millet research organisations across the world while also supporting research on these crops. Its secretariat will be placed in Delhi.

Statement 3 is incorrect. India will contribute the seed money, while each G20 member will later have to contribute to its budget in the form of a membership fee.

Source: [The Indian Express](#)

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PRELIMS

Q.1) Consider the following statements:

1. India tops the list of nations in internet shutdowns.
2. Rajasthan has witnessed the highest internet shutdowns amongst all the State/UTs in 2022.
3. 2022 was the first time when the Internet Shutdowns were fewer than 100 in India since 2017.

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 and 3 are correct. India tops the list of nations in internet shutdowns. 2022 was the first time when the Internet Shutdowns were fewer than 100 in India since 2017.

Statement 2 is incorrect. Jammu and Kashmir has witnessed the highest internet shutdowns amongst all the State/UTs in 2022.

Source: [ForumIAS](#)

Q.2) With reference to Pradhan Mantri Kisan Samman Nidhi (PM-KISAN), consider the following statements:

1. The scheme covers all landholding farmers.
2. The central government identifies the farmer families which are eligible for support as per scheme.
3. It has been launched by the Ministry of Agriculture & Farmers Welfare.

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 and 3 are correct. PM-KISAN covers all landholding farmers. It has been launched by the Ministry of Agriculture & Farmers Welfare.

Statement 2 is incorrect. State Government and UT administration are responsible for identifying the farmer families which are eligible for support as per scheme.

Source: [ForumIAS](#)

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Q.3) Which of the following is correct regarding “Deep-Dive Training Programme”?

- a) It aims at providing training to the government employees for better resolution of the citizens’ grievances.
- b) The programme aims at providing training to physically handicapped youth for gaining employment.
- c) It focuses on training ASHA workers in line with the modern health care facilities.
- d) It is aimed at creating awareness about cyber security and developing a strong cyber ecosystem in government organizations.

Answer: D

Explanation – The Deep-Dive Training Programme is aimed at creating awareness around cyber security and developing an empowered and strong cyber ecosystem in government organizations.

Source: [ForumIAS](#)

Q.4) Consider the following statements:

- 1. Onion is a temperate crop.
- 2. Onion grows well in excessive rainfall.
- 3. Onions can be grown both in rabi and kharif seasons.

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 and 3 are correct. Onion is a temperate crop but can be grown under a wide range of climatic conditions such as temperate, tropical and subtropical climate. Onions can be grown in both rabi and kharif seasons.

Statement 2 is incorrect. Onion grows well does under mild climate without extreme of heat and cold. It does not perform well in excessive rainfall.

Source: [ForumIAS](#)

Q.5) Which of the following countries are associated with the New START Treaty?

- a) India and Russia
- b) US and India
- c) Russia and US
- d) India and Japan

Answer: C

Explanation – The New START Treaty was signed by the then-US President and then-Russian president in 2010.

Source: [ForumIAS](#)

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Q.6) With reference to “Greenfield Project” consider the following statements:

1. It is a type of project that is constructed by renovating and remodeling the existing structures.
2. Shivamogga airport is a greenfield domestic airport.

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: B

Explanation –

Statement 1 is incorrect. A greenfield project is one which is not constrained by prior work. It is constructed on unused land where there is no need to remodel or demolish an existing structure.

Statement 2 is correct. Shivamogga airport is a greenfield domestic airport.

Source: [ForumIAS](#)

Q.7) With reference to “Organ on a Chip” consider the following statements:

1. These are small devices containing human cells that are used to mimic the environment in human organs.
2. Organ-on-a-chip technology can help in drug development.

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 and 2 are correct. Organ on a chip are small devices containing human cells that are used to mimic the environment in human organs. Organ-on-a-chip technology can help in drug development.

Source: [ForumIAS](#)

Q.8) With reference to “Lalitagiri” consider the following statements:

1. It is a major Buddhist complex in the state of Odisha.
2. Theravada Buddhism was practiced at this site.
3. It is part of the Diamond Triangle.

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 –

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Statement 1 and 3 are correct. Lalitagiri is a major Buddhist complex in the state of Odisha. Together with the Ratnagiri and Udayagiri sites, Lalitagiri is part of the “Diamond Triangle”.

Statement 2 is incorrect. Vajrayana Buddhism (Tantric Buddhism) was practiced at this site.

Source: [ForumIAS](#)

Q.9) Which of the following commission recommended that the Chief Ministers should also be consulted on the appointment of Governors?

- a) Punchhi Commission
- b) Sarkaria Commission
- c) Thakkar Commission
- d) Malimath Commission

Answer: B

Explanation – Sarkaria Commission recommended that the Chief Ministers should also be consulted on the appointment of Governors.

Source: [The Indian Express](#)

Q.10) Consider the following statements:

- 1. INS Vikramaditya is the largest and most complex warship to be built in India.
- 2. INS Vikrant uses STOBAR (Short Take-Off but Arrested Landing) aircraft-operation mode.

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: B

Explanation –

Statement 1 is incorrect. INS Vikrant is the largest and most complex warship to be built in India. INS Vikramaditya has been bought from Russia.

Statement 2 is correct. INS Vikrant uses STOBAR (Short Take-Off but Arrested Landing) aircraft-operation mode.

Source: [FORUMIAS](#)

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PRELIMS

Q.1) Consider the following statements with reference to ‘Proton Beam Therapy (PBT)’:

1. It is a form of radiotherapy used to treat certain cancers.
2. It uses X-rays to deliver a dose of radiotherapy.
3. Apollo Hospital is the only center in the whole of South and West Asia offering the PBT.

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 and 3 are correct. PBT is a form of radiotherapy used to treat certain cancers. Apollo Hospital is the only center in the whole of South and West Asia offering the PBT.

Statement 2 is incorrect. PBT uses high-energy beams of protons, rather than X-rays, to deliver a dose of radiotherapy.

Source: [ForumIAS](#)

Q.2) With reference to QR-Code based Coin Vending Machine (QCVM) consider the following statements:

1. These vending machines will dispense coins in exchange physical notes.
2. It has been launched with the aim to promote the distribution of coins and enhance the accessibility to 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: C

Explanation –

Statement 1 is incorrect. QCVM will dispense coins using UPI instead of physical banknotes.

Statement 2 is correct. It will be launched with the aim to promote the distribution of coins and enhance the accessibility to coins.

Source: [ForumIAS](#)

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Q.3) Consider the following statements:

1. The Tenth Schedule of the Constitution was introduced by the 51st Constitutional Amendment.
2. When the Assembly is not in session, the Governor under his residuary powers can call for a floor test.
3. The Constitution gives the Governor's discretion in the selection of pro tem speaker.

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 –

Statement 1 is incorrect. The Tenth Schedule of the Constitution was introduced in 1985 by the 52nd Constitutional Amendment.

Statement 2 and 3 are correct. When the Assembly is not in session, the Governor under his residuary powers can call for a floor test. The Constitution gives the Governor's discretion in the selection of pro tem speaker.

Source: [ForumIAS](#)

Q.4) Consider the following statements:

1. Hummingbirds are native to Southern India.
2. Hummingbirds are important pollinators for many plant species.

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: B

Explanation –

Statement 1 is incorrect. Hummingbirds are native to America.

Statement 2 is correct. Hummingbirds are important pollinators for many plant species.

Source: [FORUMIAS](#)

Q.5) Consider the following statements:

1. Maharashtra has the highest power demand in India.
2. Chandrayaan-3 will be launched by Launch Vehicle Mark 3 (LMV3).

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: C

Explanation –

Statement 1 and 2 are correct. As per the report published by Institute for Energy Economics

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and Financial Analysis (IEEFA), Maharashtra has the highest power demand in India. Chandrayaan-3 will be launched by Launch Vehicle Mark 3 (LMV3).

Source: [ForumIAS](#)

Q.6) With reference to Grievance Appellate Committee (GAC) consider the following statements:

1. It is a committee established under the Ministry of Women and Child Development to resolve the grievances of online sexual abuse to women and children.
2. The entire appeal process under GAC is online.

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: B

Explanation –

Statement 1 is incorrect. GAC is established under the Information Technology (Intermediary Guidelines and Digital Media Ethics Code) Rules, 2021 made under the Information Technology Act, 2000. It aims to ensure a Safe & Trusted and Accountable Internet for Indian users.

Statement 2 is correct. The entire appeal process from filing to decision under GAC is online.

Source: [ForumIAS](#)

Q.7) With reference to ‘VAIBHAV Fellowship scheme’ consider the following statements:

1. The scheme aims at providing scholarship to Indian students to study abroad in the field of Science and Technology.
2. The maximum duration is five years for which the scholarship is provided.

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: D

Explanation –

Statement 1 and 2 are incorrect. VAIBHAV Fellowship scheme has been launched for the Indian Diaspora abroad. The fellowship offers NRI researchers an opportunity to work for a minimum of one month to a maximum of two months a year with a research institution or an academic institution in India. The total duration of the scheme is three years with the government offering the researchers an amount of up to Rs 37 lakh for the entire period.

Source: [ForumIAS](#)

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Q.8) With reference to 'ALMA Telescope' consider the following statements:

1. The telescope has extraordinary sensitivity which allows it to detect even extremely faint radio signals.
2. ALMA uses a correlator to combine the data collected by each antenna into a single image.
3. The telescope is being developed by India along with the partnership of Japan.

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 –

Statement 1 and 2 are correct. ALMA Telescope has extraordinary sensitivity which allows it to detect even extremely faint radio signals. It uses a correlator to combine the data collected by each antenna into a single image.

Statement 3 is incorrect. The telescope is being developed by an international partnership between various organisations in Europe, the U.S., Japan, Canada, Taiwan and the Republic of Korea in cooperation with the Republic of Chile.

Source: [ForumIAS](#)

Q.9) Consider the following statements with reference to Zero Coupon Zero Principal (ZCZP) bonds:

1. ZCZP provides a fixed interest on the funds raised through it.
2. It has a specific tenure and can only be issued for a specific project.

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: B

Explanation –

Statement 1 is incorrect. ZCZP does not provide a fixed interest on the funds raised through it. It has a specific tenure and can only be issued for a specific project.

Source: [The Hindu](#)

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Q.10) With reference to “coral reefs” consider the following statements:

1. Coral reefs increases coastal flooding and erosion.
2. Coral reefs cover less than 0.5% of the earth’s surface.
3. Coral reefs are known as the rainforests of the sea.

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 –

Statement 1 is incorrect. Coral reefs reduces coastal flooding and erosion.

Statement 2 and 3 are correct. Coral reefs cover less than 0.5% of the earth’s surface. Coral reefs are known as the rainforests of the sea.

Source: [The Indian Express](#)

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PRELIMS

Q.1) With reference to Ken-Betwa Link Project (KBLP) consider the following statements:

1. It is the first project under the National Perspective Plan for interlinking of rivers.
2. KBLP will be implemented through six phases.

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 –

Statement 1 is correct. KBLP is the first project under the National Perspective Plan for interlinking of rivers.

Statement 2 is incorrect. KBLP will be implemented through two phases.

Source: [ForumIAS](#)

Q.2) With reference to Panna Tiger Reserve (PTR) consider the following statements:

1. The terrain in PTR consists of extensive plateaus and gorges.
2. Shipra River flows through this reserve from the south to the north.
3. It is the northern most boundary of natural distribution of teak forests.

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 and 3 are correct. The terrain in PTR consists of extensive plateaus and gorges. It is the northern most boundary of natural distribution of teak forests.

Statement 2 is incorrect. River Ken flows through this reserve from the south to the north.

Source: [ForumIAS](#)

Q.3) With reference to “Star Labeling Program” consider the following statements:

1. It has been formulated by the Bureau of Energy Efficiency (BEE).
2. The aim of the programme is to create alternative energy solution in the electric consumer appliances.

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 –

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Statement 1 is correct. Star Labeling Program has been formulated by the Bureau of Energy Efficiency (BEE).

Statement 2 is incorrect. The aim of the programme is to provide consumers an informed choice regarding the energy savings and thereby the cost-saving potential of various energy-consuming appliances. This scheme prescribes minimum energy performance levels for appliances/equipment, rated on a scale of 1 to 5 with 5 being the most energy efficient.

Source: [ForumIAS](#)

Q.4) Which of the following is the objective of “iDEEKSHA Portal”?

- It aims to provide access to free online educational resources to the school students.
- It is a dedicated platform that will provide computer literacy to the student of the government school across India.
- It is designed to serve as a one-stop shop for all energy efficiency and decarbonization needs of Indian energy-intensive industries.
- It is platform designed to encourage financial inclusion amongst the disadvantaged groups of the society by providing lucrative schemes.

Answer: C

Explanation – The aim of iDEEKSHA Portal is to serve as a one-stop shop for all energy efficiency and decarbonization needs of Indian energy-intensive industries.

Source: [ForumIAS](#)

Q.5) Consider the following statements with reference to “Cryogenic Engine”:

- It uses propellants at extremely low temperatures.
- CE-20 is the first Indian cryogenic engine to feature a gas-generator cycle.
- A cryogenic engine uses liquid nitrogen and carbon as a fuel.

Which of the statements given above are correct?

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

Answer: A

Explanation –

Statement 1 and 2 are correct. Cryogenic Engine is a very complex system due to its use of propellants at extremely low temperatures. CE-20 is the first Indian cryogenic engine to feature a gas-generator cycle.

Statement 3 is incorrect. A cryogenic engine uses liquid oxygen and liquid hydrogen as fuel.

Source: [ForumIAS](#)

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Q.6) Consider the following statements:

1. S-400 Triumf missile system is considered one of the world's most advanced air defence systems that can engage all types of aerial targets.
2. Only six countries have developed their own cryogenic engines.

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: C

Explanation –

Statement 1 and 2 are correct. S-400 Triumf missile system is considered one of the world's most advanced air defence systems that can engage all types of aerial targets. Only six countries have developed their own cryogenic engines the US, France/European Space Agency, Russia, China, Japan, and India.

Source: [FORUMIAS](#)

Q.7) Consider the following statements:

1. Philanthropic contributions made by India's Ultra High Networth Individuals (UHNIs) have increased in the previous financial year.
2. Corporate social responsibility (CSR) spending has risen in the past few years.
3. CSR activity has not been evenly distributed in India.

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 –

Statement 1 is incorrect. Philanthropic contributions made by India's Ultra High Networth Individuals (UHNIs) has fallen sharply in the previous financial year.

Statement 2 and 3 are correct. Corporate social responsibility (CSR) spending has risen in the past few years. CSR activity has not been evenly distributed in India.

Source: [ForumIAS](#)

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Q.8) Consider the following statements:

1. The definition of forests provided by the Food and Agriculture Organization (FAO) does not include areas predominantly under agriculture or urban land use.
2. India counts all 1-hectare plots with 10% canopy cover irrespective of land use as forest.
3. State of Forest Reports (SFRs) is published by Environment Survey of India.

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 –

Statement 1 and 2 are correct. The definition of forests provided by the Food and Agriculture Organization (FAO) does not include areas predominantly under agriculture or urban land use. India counts all 1-hectare plots with 10% canopy cover irrespective of land use as forest.

Statement 3 is incorrect. State of Forest Reports (SFRs) is published by the Forest Survey of India (FSI)

Source: [ForumIAS](#)

Q.9) With reference to Fugitive Economic Offenders (FEO) consider the following statements:

1. FEO is defined as an individual against whom terrorist's charges are filed under Unlawful Activities (Prevention) Act.
2. Fugitive Economic Offenders Act, 2018 defines the term Fugitive Economic Offender (FEO).

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: B

Explanation –

Statement 1 is incorrect. FEO is defined as an individual against whom a warrant of arrest in relation to scheduled offence has been issued by any court in India and who has left the country to avoid criminal prosecution, or the FEO abroad refuses to return to face criminal prosecution.

Statement 2 is correct. Fugitive Economic Offenders Act, 2018 defines the term Fugitive Economic Offender (FEO).

Source: [ForumIAS](#)

Q.10) Debrigarh Tiger Reserve is located in

- a) Assam
- b) Odisha
- c) Madhya Pradesh
- d) Arunachal Pradesh

Answer: B

Explanation – Debrigarh is located near the Hirakud dam at Sambalpur, Odisha.

Source: [ForumIAS](#)

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PRELIMS

Q.1) Which of the following is the objective of “SWAYATT Initiative”?

- a) It aims to promote Start-ups, Women and Youth Advantage through e-Transactions on Government e-Marketplace (GeM).
- b) It aims to establish a greenfield city on the Great Nicobar Island.
- c) It aims to provide legally guaranteed minimum support price (MSP) for 22 crops that should be set at a profit margin of 50 percent over the comprehensive cost of production.
- d) It aims at 100% rural electrification with reliable, adequate & quality electricity supply and also to provide access to electricity to villages/habitations & households.

Answer: A

Explanation – SWAYATT Initiative aims to promote start-ups, women and youth advantage through e-Transactions on Government e-Marketplace (GeM).

Source: [FORUMIAS](#)

Q.2) The Government of India has recently constituted Greater Panna Landscape Council (GPLC). Which of the following is the aim of the Greater Panna Landscape Council?

- a) It aims to enable the betterment of habitat, protection, and management for flagship species in Panna Tiger Reserve (PTR).
- b) It aims to provide development strategy on the hilly terrain of the PTR.
- c) It aims to create species specific ecosystem within the PTR.
- d) It aims to reintroduce the keystone species in the PTR along with acquiring benefits from forest produce.

Answer: A

Explanation – The Greater Panna Landscape Council (GPLC) has been constituted to ensure systematic and time-bound implementation of Integrated Landscape Management Plan (ILMP). One of the objectives of GPLC is to enable the betterment of habitat, protection, and management for flagship species viz. tiger, vulture, and gharial in the landscape.

Source: [ForumIAS](#)

Q.3) With reference to “Raisina Dialogue” consider the following statements:

- 1. It is organized by the Ministry of Home Affairs in collaboration with the India Brand Equity Foundation.
- 2. It is held annually at New Delhi.
- 3. It is India's flagship conference on geopolitics and geo-economics.

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 –

Statement 1 is incorrect. Raisina Dialogue is organized by the Ministry of External Affairs in collaboration with the Observer Research Foundation (ORF).

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Statement 2 and 3 are correct. Raisina Dialogue is held annually at New Delhi. It is India's flagship conference on geopolitics and geo-economics.

Source: [ForumIAS](#)

Q.4) With reference to Government e Marketplace (GeM) consider the following statements:

1. It is an online marketplace setup by the government to provide commonly used goods and services at subsidized rates to the citizens.
2. It functions under Directorate General of Supplies and Disposals (DGS&D), Ministry of Commerce and Industry.

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: B

Explanation –

Statement 1 is incorrect. Government e Marketplace is an online marketplace setup in 2016 for procurement of commonly used goods and services by government ministries, departments and CPSEs.

Statement 2 is correct. GeM functions under Directorate General of Supplies and Disposals (DGS&D), Ministry of Commerce and Industry.

Source: [FORUMIAS](#)

Q.5) With reference to “Ornamental fish culture” consider the following statements:

1. It is the culture of attractive, colourful fishes of various characteristics, which are reared in a confined aquatic system.
2. Most of the ornamental fishes survive in freshwater.
3. Ornamental fish farming in India is practiced in West Bengal.

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: D

Explanation –

Statement 1, 2 and 3 are correct. Ornamental fish culture is the culture of attractive, colourful fishes of various characteristics, which are reared in a confined aquatic system. Most of the ornamental fishes survive in freshwater. Kerala, Tamil Nadu and West Bengal mainly practice ornamental fish farming in India.

Source: [ForumIAS](#)

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Q.6) With reference to “Framework Mechanism for Mutual Recognition of Qualifications” consider the following statements:

1. The framework has been signed between India and Sweden.
2. The framework aims to facilitate trade between the two countries.

Select the correct option 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 and 2 are incorrect. The framework has been signed between India and Australia. It aims to help ease the mobility of students and professionals between the two countries.

Source: [FORUMIAS](#)

Q.7) With reference to “Windsor Framework” consider the following statements:

1. It is a post-Brexit agreement between the European Union and the United Kingdom.
2. The agreement is launched to address the issue of the Northern Ireland Protocol.

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 and 2 are correct. Windsor Framework is a post-Brexit agreement between the European Union and the United Kingdom. The agreement is launched to address the main issue of the Northern Ireland Protocol.

Source: [ForumIAS](#)

Q.8) Which of the following is/are likely the cause(s) of ‘Winter Heat Waves’ in India?

1. Strong Western Disturbances
2. Anti-cyclone formation over the Arabian Sea
3. Increasing Lapse rate

Select the correct option using the code given below:

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

Answer: B

Explanation – The causes of winter heat waves in India are – weak western disturbances, Anti-cyclone formation over the Arabian Sea, declining lapse rate (the rate at which temperatures cool from the surface to the upper atmosphere), climate change, etc.

Source: [FORUMIAS](#)

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Q.9) With reference to “Kole Wetland” consider the following statements:

1. It is located in Kerala.
2. The wetland is popular for its pulse cultivation.
3. It is one of the Ramsar Sites.
4. It is situated in the Central Asian Flyway of migratory birds.

Which of the statements given above are correct?

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

Answer: B

Explanation –

Statement 1, 3 and 4 are correct. Kole Wetland is located in Kerala. It is one of the Ramsar Sites. It is situated in the Central Asian Flyway of migratory birds.

Statement 2 is incorrect. The wetland is popular for its rice cultivation.

Source: [ForumIAS](#)

Q.10) Considering the following statements:

1. Thyreus narendrani is a species of cuckoo bee.
2. Cuckoo bees parasitise the nest of other bees by breaking and entering and laying their eggs.
3. The pollen-collecting structures in cuckoo bees are more efficient than other female bees.

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 –

Statement 1 and 2 are correct. Thyreus narendrani is a species of cuckoo bee. Cuckoo bees parasitise the nest of other bees by breaking and entering and laying their eggs.

Statement 3 is incorrect. Unlike other female bees, cuckoo bees lack pollen-collecting structures.

Source: [ForumIAS](#)