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9169191888
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Q.1) Consider the following statements with respect to 'Prime Minister National Relief Fund'

1. It was established entirely with public contributions and does not get any budgetary support
2. PMNRF has been constituted by the Parliament and is recognized as a trust under the Income Tax Act
3. Prime Minister is the Chairman of PMNRF and disbursements are made with his/her approval

Choose the correct answer using the code given below

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

Q.1) Solution(b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
Prime Minister's National Relief Fund (PMNRF) was established entirely with public contributions and does not get any budgetary support. The corpus of the fund is invested in various forms with scheduled commercial banks and other agencies.	PMNRF has not been constituted by the Parliament. The fund is recognized as a Trust under the Income Tax Act and the same is managed by Prime Minister or multiple delegates for national causes. PMNRF accepts voluntary contributions from Individuals, Organizations, Trusts, Companies and Institutions etc.	Prime Minister is the Chairman of PMNRF and is assisted by Officers/ Staff on honorary basis and disbursements are made with the approval of the Prime Minister.

Context - PM announced ex-gratia from PMNRF for the victims of mishap in Morbi

Q.2) Consider the following statements with respect to 'Global Climate Observing System (GCOS)'

1. It is co-sponsored by the World Meteorological Organization (WMO) and the Intergovernmental Oceanographic Commission (IOC)

2. It aims to ensure that the observations and information needed to address climate-related issues are made available to all potential users

Select the correct statement(s)

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

Q.2) Solution(c)

Statement Analysis:

Statement 1	Statement 2
Correct	Correct
The Global Climate Observing System (GCOS) was established in 1992 as an outcome of the Second World Climate Conference, to ensure that the observations and information needed to address climate-related issues are obtained and made available to all potential users.	The GCOS is co-sponsored by the World Meteorological Organization (WMO), the Intergovernmental Oceanographic Commission (IOC) of UNESCO, the United Nations Environment Programme (UNEP), and the International Council for Science (ICSU). GCOS regularly reports on the adequacy of the current climate observing system to the United Nations Framework Convention on Climate Change (UNFCCC)

Context - Global Climate Observing System (GCOS) conference took place

Q.3) Consider the following statements with respect to 'Amur Falcons'

1. It is the longest flying migratory bird and mainly breeds in North-Eastern India
2. It is protected under Wildlife Protection Act and it's IUCN status is Vulnerable

Select the correct statement(s)

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

Q.3) Solution(d)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Incorrect
The Amur falcon (<i>Falco amurensis</i>) is a small raptor (Bird of Prey) of the falcon family. It is the longest-flying migratory bird and breeds in south-eastern Siberia and Northern China before migrating in large flocks across India and over the Arabian Sea to winter in Southern and East Africa.	Amur falcon is protected under the Wildlife Protection Act 1972 and included under its Schedule IV and the IUCN status is Least Concern.

Context - Amur falcons begin to arrive in Manipur after travelling over 20,000 km

Q.4) 'Al-Shabaab' a militant group seen in news is based out of

- a) Sudan
- b) Yemen
- c) Iran
- d) Somalia

Q.4) Solution(d)

Al-Shabaab is an Islamic fundamentalist Salafi jihadist group which is based in Somalia and active elsewhere in East Africa. It is actively involved in the ongoing Somali Civil War.

Context - At least 100 were killed in terrorist attacks by al-Shabaab

Q.5) Consider the following statements with respect to 'Genealogical DNA test'

1. The test looks at specific locations of a person's genome in order to estimate the ethnic mixture of an individual
2. The mitochondrial-DNA test can be taken by both males and females unlike a Y-DNA test
3. Y-DNA and mtDNA tests can be used for ethnicity estimates but cannot be used to find one's haplogroup

Choose the correct answer using the code given below

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

Q.5) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
A genealogical DNA test is a DNA-based test used in genetic genealogy that looks at specific locations of a person's genome in order to find or verify ancestral genealogical relationships, or (with lower reliability) to estimate the ethnic mixture of an individual.	The mtDNA test can be taken by both males and females, because everyone inherits their mtDNA from their mother, as the mitochondrial DNA is located in the egg cell. However, a Y-DNA test can only be taken by a male, as only males have a Y-chromosome.	Y-DNA and mtDNA cannot be used for ethnicity estimates, but can be used to find one's haplogroup, which is unevenly distributed geographically. MtDNA and Y-DNA tests are utilized to identify archeological cultures and migration paths of a person's ancestors along a strict mother's line or a strict father's line.

Context - Supreme Court has voiced concerns over increasing use of DNA testing to prove a case

Q.6) Consider the following statements

1. Every member of the civil service in the State holds office during the pleasure of the Governor
2. Governor can act in his discretion in certain matters as permitted by the Constitution.
3. The Governor of an Indian State can remove a Minister on his own only when he/she commits a grave constitutional act

Choose the correct answer using the code given below

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

Q.6) Solution(a)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
In India, Article 310 of the Constitution of India says every person in the defence or civil service of the Union holds office during the pleasure of the President, and every member of the civil service in the States holds office during the pleasure of the Governor.	Article 163(2) says the Governor can act in his discretion in certain matters as permitted by the Constitution.	Under Article 164, the Chief Minister is appointed by the Governor; and the other Ministers are appointed by the Governor on the CM's advice. It adds that Ministers hold office during the pleasure of the Governor. In a constitutional scheme in which they are appointed solely on the CM's advice, the 'pleasure' referred to is also taken to mean the right of the Chief Minister to dismiss a Minister, and not that of the Governor. In short, the Governor of an Indian State cannot remove a Minister on his own.

Context - Kerala Governor has sought the dismissal of State's Finance Minister from his Cabinet, declaring that he has withdrawn the pleasure of having him in the Council of Ministers.

Q.7) Consider the following statements with respect to 'Electronic Negotiable Warehouse Receipt (e-NWR)'

1. e-NWRS can be traded through off-market or on-market in Commodity Exchanges platforms
2. The Food Corporation of India (FCI) regulates the entire operation under NWR

Select the correct statement(s)

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

Q.7) Solution(a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
All e-NWRS can be traded through off-market or on-market in Commodity Exchanges platforms. An e-NWR can be auctioned under certain conditions such as loan not repaid, on expiry and delivery not taken, and on likely damage or spoilage of the commodity in the warehouse. e-NWR can be transferred fully or in part.	The Warehousing Development and Regulatory Authority (WDRA) regulates the entire operation under NWR. This has been enabled by enabling the financing of warehouse receipts through the Warehouse (Development and Regulation) Act, 2007.

Context - Warehousing Development and Regulatory Authority (WDRA) organised a seminar on “e-NWR – An Effective Tool for Promoting Pledge Financing”.

Q.8) Consider the following statements with respect to ‘World Cities Day’

1. This day was designated by UN-Habitat and a global observance is held in a different city each year
2. It aims to promote the international community’s interest in global urbanization and sustainable urban development

Select the correct statement(s)

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

Q.8) Solution(b)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct
The United Nations General Assembly designated 31 October as World Cities Day, by its resolution 68/239. As with World	The Day is expected to greatly promote the international community’s interest in global urbanization, push forward cooperation among

Habitat Day, a global observance is held in a different city each year and the day focuses on a specific theme.

countries in meeting opportunities addressing challenges of urbanization and contributing to sustainable urban development around the world.

Context - World cities day was observed on 31st October recently.

Q.9) Consider the following statements with respect to 'Ganges River Dolphin'

1. It is a fresh-water species and has been recognized as the National Aquatic Animal of India
2. They are known to do acrobatic maneuvers when they're distressed and use echolocation to find food
3. Supreme Court of India granted non-human personhood these dolphins which prevent captivity for entertainment

Choose the correct answer using the code given below

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

Q.9) Solution(d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Incorrect
The Gangetic Dolphin is a fresh-water species, and one of the few river dolphins found in the world. The Gangetic Dolphin has been recognized as India's National Aquatic Animal and is the official animal of the Indian city of Guwahati.	The Ganges river dolphins usually come in pairs or they're just single and are not known to do acrobatic maneuvers near boats or when they're distressed. Little is known about their behavior because they are usually shy around boats and are hard to observe. Ganges river dolphins use echolocation to find food.	India's Ministry of Environment and Forests declared dolphins 'nonhuman persons' and as such has forbidden their captivity for entertainment purposes; keeping dolphins in captivity must satisfy certain legal prerequisites.

Context - Dolphins have started coming back to the Ganga river with improvement in the quality of its water through the Namami Gange programme

Q.10) 'Deinococcus Radiodurans' a bacteria seen in news recently finds usage in

1. Bio-remediation
2. Synthesis of precious metals
3. Nitrification
4. Vaccine development
5. Space research

Choose the correct answer using the code given below

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

Q.10) Solution(c)

Deinococcus radiodurans is an extremophilic bacterium and one of the most radiation-resistant organisms known. It can survive cold, dehydration, vacuum, and acid, and therefore is known as a polyextremophile. D. radiodurans been genetically modified for bioremediation applications. A nanotechnological application of D. radiodurans in the synthesis of silver and gold. Researchers simulated the harsh ionising radiation on Mars in a new study where they found that Deinococcus Radiodurans could potentially survive close to the surface of the planet much longer than previously thought. They haven't been used in vaccine development and nitrification as yet.

Context – This bacteria was in news due to a new research which proves their extreme resistance

Q.11) Why is a plant called 'Senna spectabilis' often mentioned in news ?

- a) It's extract can be used in biodiesel production
- b) It is used in the production of technical textiles
- c) It is known to reduce biodiversity in the area where it grows
- d) It is used to produce anti-malarial drugs

Q.11) Solution(c)

Senna spectabilis was introduced as an ornamental species and for use as firewood from South and Central America, the species has become highly invasive in the Sigur plateau in both the core and buffer zones of the MTR. Over the last few years, its bright yellow flowers have become more visible across the Tiger Reserve. Conservationists say the invasive weed has a negative effect on local biodiversity, crowding out native species and limiting food availability for wildlife. Senna spectabilis, along with Lantana camara, is among five major invasive weeds that had taken over vast swathes of the Nilgiris, with wattle being the other major invasive species.

Q.12) Consider the following statements with respect to 'National Technical Textiles Mission (NTTM)'

1. The mission launched by Ministry of Textiles aims to position India as a global leader in Technical Textiles
2. The mission includes projects from speciality fibres, smart textiles, geo textiles and agro-textiles

Select the correct statement(s)

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

Q.12) Solution(c)

Statement Analysis:

Statement 1	Statement 2
Correct	Correct
National Technical Textiles Mission' was launched by the Ministry of Textiles for a period of 4 years (2020-21 to 2023-24) with an outlay of Rs. 1480 crores. The aim of the mission is to position India as a global leader in Technical Textiles.	The mission recently approved projects from 5 Projects of Speciality Fibres, 6 Projects of Agro-textiles, 2 Projects from Smart Textiles, 2 from protective gear and apparel, 2 from geotextiles, 1 from activewear apparels, 1 from strategic application area, 1 from sports textiles approved

Context - Ministry of Textiles clears 20 Strategic Projects in the areas of Specialty Fibres, Agro-textile, Protech, Sportech and Geotech segment under the Flagship Programme National Technical Textiles Mission (NTTM)

Q.13) Consider the following statements with respect to 'Nutrient-based subsidy scheme'

1. A fixed amount of subsidy decided on a seasonal basis is provided based on the nutrient content present in them.
2. It covers Nitrogen (N), Phosphorus (P), Potash (K) and Sulphar (S) for Phosphatic and Potassic (P&K) and Urea fertilizers
3. It is being implemented by the Department of Fertilizers, Ministry of Agriculture and Farmer Welfare

Choose the correct answer using the code given below

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1, 2 and 3
- d) None of the above

Q.13) Solution(d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Incorrect
Under NBS, a fixed amount of subsidy decided on an annual basis, is provided on each grade of subsidized Phosphatic & Potassic (P&K) fertilizers, except for Urea, based on the nutrient content present in them.	Nutrient Based Subsidy (NBS) scheme covers various Nutrients that is Nitrogen (N), Phosphorus (P), Potash (K) and Sulphar (S) for Phosphatic and Potassic (P&K) fertilizers. It does not cover urea which remains outside the ambit of NBS	It is being implemented from April 2010 by the Department of Fertilizers, Ministry of Chemicals & Fertilizers.

Context - Cabinet approves Nutrient Based Subsidy rates for Phosphatic and Potassic fertilizers for Rabi season 2022-23 from 1st October, 2022 to 31st March, 2023

Q.14) With reference to 'Ethanol Blended Petrol (EBP) Programme', consider the following statements

1. Ethanol can be procured from B heavy molasses, C heavy molasses and sugarcane juice under this programme

2. This programme extends to whole of India and promotes the use of alternative and environment friendly fuels

Select the correct statement(s)

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

Q.14) Solution(a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
For the first time during ethanol supply year 2018-19, following raw materials apart from C heavy molasses were allowed for ethanol production viz. B heavy molasses, sugarcane juice, sugar, sugar syrup, damaged food grains like wheat and rice unfit for human consumption.	Government has been implementing Ethanol Blended Petrol (EBP) Programme wherein OMCs sell petrol blended with ethanol up to 10%. This programme has been extended to whole of India except Union Territories of Andaman Nicobar and Lakshadweep islands with effect from 01st April, 2019 to promote the use of alternative and environment friendly fuels. This intervention also seeks to reduce import dependence for energy requirements and give boost to agriculture sector.

Context - Cabinet approves Mechanism for procurement of ethanol by Public Sector Oil Marketing Companies (OMCs) under Ethanol Blended Petrol (EBP) Programme - Revision of ethanol price for supply to Public Sector OMCs for Ethanol Supply Year (ESY) 2022-23

Q.15) Consider the following statements with respect to 'Shanghai Cooperation Organization'

1. The Council of Heads of Government is the supreme decision-making body of the SCO which meets once a year
2. The Regional Anti-Terrorist Structure (RATS) Executive Committee is a permanent organ of the SCO which serves to promote cooperation against separatism
3. The organization has observers and dialogue partners across three continents

Choose the correct answer using the code given below

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

Q.15) Solution(b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
The Heads of State Council (HSC) is the supreme decision-making body in the SCO. It meets once a year and adopts decisions and guidelines on all important matters of the organisation. The Council of Heads of Government is the second-highest council in the organisation. This council also holds annual summits, at which time members discuss issues of multilateral cooperation. The council also approves the organisation's budget.	The Regional Anti-Terrorist Structure (RATS) Executive Committee, headquartered in Tashkent, Uzbekistan, is a permanent organ of the SCO which serves to promote cooperation of member states against the three evils of terrorism, separatism and extremism. The Director of SCO RATS Executive Committee is elected to a three-year term.	The Four observer states of SCO are Afghanistan, Belarus, Iran and Mongolia(Asia and Europe).Egypt(Africa) recently became a dialogue partner. The others are Armenia, Azerbaijan, Cambodia, Egypt, Nepal, Qatar, Saudi Arabia, Sri Lanka and Turkey

Context – SCO meet was recently hosted by China

Q.16) Consider the following statements with respect to ‘Coronal holes’

1. These are regions on the sun’s surface where radiation is absorbed from the solar atmosphere
2. The holes are a unique phenomenon which appear rarely in the sun’s solar cycle

Select the correct statement(s)

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

Q.16) Solution(d)**Statement Analysis:**

Statement 1	Statement 2
Incorrect	Incorrect
These are regions on the sun's surface from where fast solar wind gushes out into space. Because they contain little solar material, they have lower temperatures and thus appear much darker than their surroundings. The magnetic field is open to interplanetary space, sending solar material out in a high-speed stream of solar wind. Coronal holes can last between a few weeks to months.	The holes are not a unique phenomenon, appearing throughout the sun's approximately 11-year solar cycle. They can last much longer during solar minimum – a period of time when activity on the Sun is substantially diminished, according to NASA.

Context - A phenomenon called "coronal holes" was recently spotted on the sun.

Q.17) With reference to 'Ballistic Missile Defence (BMD) interceptor AD-1 missile', consider the following statements

1. It is an intermediate-range interceptor missile propelled by a two stage solid motor
2. It is designed for both low exo-atmospheric and endo-atmospheric interception

Select the correct statement(s)

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

Q.17) Solution(b)**Statement Analysis:**

Statement 1	Statement 2
Incorrect	Correct
The AD-1 is a long-range interceptor missile propelled by a two-stage solid motor and equipped with indigenously-developed advanced control system, navigation and guidance algorithm to precisely guide the vehicle to the target that move at very high speeds.	It is designed for both low exo-atmospheric and endo-atmospheric interception of long-range ballistic missiles as well as aircraft.

Context - India successfully tested Ballistic Missile Defence Interceptor capable of neutralising long-range adversary missiles

Q.18) Consider the following statements with respect to 'Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR)-cas9 technology'

1. CRISPR is a family of DNA sequences found in the genomes of eukaryotic organisms such as animals and plants
2. Cas9 enzyme acts as molecular scissors to cut DNA at a location specified by a guide RNA and binds to the target DNA
3. CRISPR-Cas9 technology does not work at very low temperatures and disengages from the cleaved-DNA products after the enzyme does the job

Choose the correct answer using the code given below

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

Q.18) Solution(b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect
CRISPR (Clustered Regularly Interspaced Short Palindromic	Cas9 enzyme acts as molecular scissors to cut DNA at a location	Scientists of Raman Research Institute (RRI) have

<p>Repeats) are short DNA sequences found in the genome of prokaryotic organisms such as bacteria, which are reminders of previous bacteriophage (viruses) attacks that the bacteria successfully defended against.</p>	<p>specified by a guide RNA, can bind to and cut the target DNA at very low temperatures. Cas9 (or "CRISPR-associated protein 9") is an enzyme that uses CRISPR sequences as a guide to recognize and cleave specific strands of DNA that are complementary to the CRISPR sequence.</p>	<p>demonstrated that the Cas9 enzymes strongly bind to the target at very low temperatures and remains bound to the cleaved DNA products even after the enzyme has done its job.</p>
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Context - Indian scientists have demonstrated for the first time that the associated Cas9 enzyme can bind to and cut the target DNA at very low temperatures.

Q.19) 'Panamaram heronry' a famous breeding site for herons is located in

- a) Tamil Nadu
- b) Puducherry
- c) Kerala
- d) Andhra Pradesh

Q.19) Solution(c)

Panamaram heronry is one of the largest mixed species heronry in Kerala and important site for breeding 9 species of water birds, which includes species like black headed-ibis, purple heron, large egret, median egret, little egret, pond heron, night heron, and little cormorant. The heronry is formed on a sandbank on the Panamaram river.

Context - Panamaram heronry, the largest breeding ground of different species of herons in the Malabar region, is set to get a fresh lease of life

Q.20) Consider the following statements regarding 'Disqualification of elected representatives'

1. Tenth Schedule of the Constitution contains detailed provisions aimed to decriminalize electoral politics
2. The Election Commission has the power to either remove or reduce the period of a person's disqualification
3. Protection of Civil Rights Act, Customs Act and Income Tax Act are among the category of offences that entail disqualification regardless of the period of punishment.

Choose the correct answer using the code given below

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

Q.20) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect
Section 8 of the Representation of the People Act (RPA), 1951, contains provisions to decriminalize electoral politics.	The RPA itself provides a remedy through the Election Commission. Under 11 of the Act, the EC may record reasons and either remove, or reduce the period of, a person's disqualification. The EC exercised this power for Sikkim Chief Minister P.S. Tamang, who served a one-year sentence for corruption, and reduced his disqualification so as to contest a byelection and remain in office	Special laws such as the Protection of Civil Rights Act, Customs Act, Unlawful Activities (Prevention) Act, Laws for prevention of Sati, corruption, terrorism and insult to the national flag and national anthem etc, are among the category of offences that entail disqualification regardless of the period of punishment. Income Tax Act doesn't fall under this ambit

Context - Recently two legislators from Uttar Pradesh were convicted of criminal charges and one of them has been disqualified from the state assembly.

Q.21) Consider the following statements with respect to 'Indian Ocean Rim Association'

1. It is a regional forum bringing together representatives of Government, Business and Academia
2. The Western Indian Ocean Marine Science Association and the Indian Ocean Naval Symposium have observer status at the IORA
3. IORA's apex body is the Council of Foreign Ministers (COM) which meets annually

Choose the correct answer using the code given below

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

- c) 1 and 3 only
- d) All the above

Q.21) Solution(c)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
The Indian Ocean Rim Association (IORA) is an international organisation consisting of 23 states bordering the Indian Ocean. The IORA is a regional forum, tripartite in nature, bringing together representatives of Government, Business and Academia, for promoting co-operation and closer interaction among them.	The Indian Ocean Research Group (IORG) and Western Indian Ocean Marine Science Association (WIOMSA) are observers at IORA	IORA's apex body is the Council of Foreign Ministers (COM) which meets annually. A committee of Senior Officials (CSO) meets twice a year to progress IORA's agenda and consider recommendations by Working Groups and forums of officials, business and academics to implement policies and projects to improve the lives of people within the Indian Ocean Member States.

Context - A Seminar on Illegal, Unreported and Unregulated (IUU) Fishing, under the aegis of Indian Ocean Rim Association (IORA), was conducted by the Indian Navy at Goa

Q.22) Consider the following

1. Polymer reinforcement
2. Photocatalysis
3. Drug carriers
4. Road paving
5. Sunscreens

Which of the above mentioned applications can be performed using nanoparticles?

- a) 1, 2 and 3 only
- b) 2, 3 and 5 only
- c) 1, 3 and 5 only
- d) All the above

Q.22) Solution(d)

Clay nanoparticles, when incorporated into polymer matrices, increase reinforcement, leading to stronger plastics, verifiable by a higher glass transition temperature and other mechanical property tests. Nanoparticles can be dispersed in transparent media without affecting its transparency at those wavelengths. This property is exploited in many applications, such as photocatalysis. Asphalt modification through nanoparticles can be considered as an interesting low-cost technique in asphalt pavement engineering providing novel perspectives in making asphalt materials more durable. Nanoscale particles are used in biomedical applications as drug carriers or imaging contrast agents in microscopy. Anisotropic nanoparticles are a good candidate in biomolecular detection. Titanium dioxide nanoparticles imparts what is known as the self-cleaning effect, which lend useful water-repellant and antibacterial properties to paints and other products.

Context - As part of the ongoing Govt of India initiative “Azadi ka Amrit Mahatosav”, the Indian Journal of Biochemistry and Biophysics (IJBB), CSIR-National Institute of Science Communication and Policy Research (NIScPR), New Delhi, has brought out its November 2022 issue as a special issue on the theme, “Nanoparticles: Emerging trends in human health and Environment” in the Indian context.

Q.23) ‘Mauna Loa’ a volcano seen in news recently is located in

- a) Indonesia
- b) Hawaii
- c) Italy
- d) Japan

Q.23) Solution(b)

Mauna Loa is one of five volcanoes that together make up the Big Island of Hawaii, which is the southernmost island in the Hawaiian archipelago. It’s not the tallest (that title goes to Mauna Kea) but it’s the largest and makes up about half of the island’s land mass. Mauna Loa last erupted 38 years ago.

Context - The U.S. Geological Survey's Hawaiian Volcano Observatory said that Mauna Loa continues to be in a state of heightened unrest and could erupt.

Q.24) With reference to ‘Cordy gold nanoparticles (Cor-AuNPs)’, consider the following statements

1. These nanoparticles could make drug delivery in the human body slower and surer

2. Cordyceps militaris, parasitic fungus used in the manufacture of these nanoparticles is found extensively in Eastern Ghats

Select the correct statement(s)

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

Q.24) Solution(d)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Incorrect
Cordy gold nanoparticles (Cor-AuNPs) is the outcome of a collaborative experiment by scientists from four Indian institutions, has earned an international patent from Germany. These nanoparticles, derived from the synthesis of the extracts of Cordyceps militaris and gold salts, could make drug delivery in the human body faster and surer.	Cordyceps militaris a high value parasitic fungus, is called super mushroom because of its tremendous medicinal properties, adds bioactive components to the synthesis of gold nanoparticles for better penetration.. Gold salts are ionic chemical compounds of gold generally used in medicine. Wild Cordyceps mushroom is found in the eastern Himalayan belt.

Context - Assam's Bodoland University is part of collaborative research on fungus-powered biosynthesised nanogold particles that has received an international patent from Germany.

Q.25) Consider the following statements with respect to 'World Network of Biosphere Reserves'

1. They are UNESCO designated and created under the Man and the Biosphere programme
2. The Governments along with academia and citizen groups decide on nomination of Biosphere Reserves
3. Brazil has the highest number of Biosphere Reserves in the world

Choose the correct answer using the code given below

- a) 1 only

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

Q.25) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Incorrect
The UNESCO World Network of Biosphere Reserves (WNBR) covers internationally designated protected areas, known as biosphere reserves, which are meant to demonstrate a balanced relationship between people and nature (e.g. encourage sustainable development). They are created under the Man and the Biosphere Programme (MAB).	Governments alone decide which areas to nominate. Before approval by UNESCO, the sites are externally examined. If approved, they will be managed based on a plan, reinforced by credibility checks while remaining under the sovereignty of their national government.	Spain has the highest number of biosphere reserves of the world.

Context - November 3 will be the first 'The International Day for Biosphere Reserves', to be celebrated beginning 2022.

Q.26) Consider the following statements with respect to 'Office of Governor'

1. There is no provision in the Constitution for impeaching the Governor
2. Governor holds office during the pleasure of the President and his removal cannot be questioned in any court of law

Select the INCORRECT statement(s)

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

Q.26) Solution(b)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
The term of governor's office is normally 5 years but it can be terminated earlier. If the pleasure is withdrawn before the completion of the five-year term, the Governor has to step down. While the Governor's duties and responsibilities lie in a particular state, there is no provision for impeaching the Governor.	Dismissal of governors without a valid reason is not permitted. However, it is the duty of the President to dismiss a governor whose acts are upheld by courts as unconstitutional and malafide. In BP Singhal vs Union of India (2010), the Supreme Court upheld that "no limitations or restrictions are placed on the 'at pleasure' doctrine", but the power to remove can't be exercised in an "arbitrary, capricious or unreasonable manner"

Context - TN government has started a petition to remove Tamil Nadu Governor R N Ravi

Q.27) Consider the following pairs

Dance form: State

1. Raut Nacha: Chattisgarh
2. Nati: Uttarakhand
3. Fugdi: Punjab
4. Dumhal: Sikkim

How many pair/pairs given above are correctly matched

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

Q.27) Solution(a)

Raut Nacha	Chhattisgarh
Nati	Himachal Pradesh
Fugdi	Goa
Dumhal	Jammu and Kashmir

Context - Artists from across the world took part in the 3rd Edition of National Tribal Dance Festival in Raipur, Chhattisgarh

Q.28) Consider the following statements with respect to 'India Infrastructure Project Development Fund (IIPDF) Scheme'

1. It is a Central Sector Scheme which will provide funding support to projects both in the Central and State Governments
2. The scheme has an initial corpus of 100 crores which would be supplemented through budgetary support
3. Department for Promotion of Industry and Internal Trade will provide support functions to examine the applications received for assistance under IIPDF

Choose the correct answer using the code given below

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

Q.28) Solution(b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Incorrect
It is a Central Sector Scheme which will aid the development of quality PPP projects by providing necessary funding support to the project sponsoring authorities, both in the Central and State Governments.	The corpus of the IIPDF shall comprise of initial budgetary outlay of Rs. 100 Crore by the Ministry of Finance. This would be supplemented, should it become necessary, through budgetary support by the Ministry of Finance from time to time.	The Public Private Partnership Cell of the DEA will provide support functions examine the applications received for assistance under IIPDF.

Context - The Department of Economic Affairs (DEA), Ministry of Finance, Government of India, notified Scheme for Financial Support for Project Development Expenses of PPP Projects – India Infrastructure Project Development Fund Scheme (IIPDF Scheme)

Q.29) Consider the following statements with respect to 'Shyama Prasad Mukherji Rurban Mission (SPMRM)'

1. The scheme aims to bridge the rural-urban divide with respect to economic, technological and those related to facilities and services
2. It is a Centrally Sponsored Scheme which is now shared between the Centre and the State in a ratio of 60:40 for Plain area States and 75:25 for Himalayan and NE States
3. The clusters under this mission are divided into tribal and non-tribal depending upon which the process of selection takes place

Select the correct statement(s)

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

Q.29) Solution(c)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
The objective of the Shyama Prasad Mukherji Rurban Mission (SPMRM) is to stimulate local economic development, enhance basic services, and create well planned Rurban clusters and to bridge the rural-urban divide with respect to economic, technological and those related to facilities and services	Upon being re-classified as a Centrally Sponsored Scheme which is now shared between the Centre and the State in a ratio of 60:40 for Plain area States and 90:10 for Himalayan and NE States	There will be two categories of clusters under SPMRM: Non-Tribal and Tribal The process of selection will vary for each of these categories. While selecting the Rurban cluster the State may identify a large village/gram panchayat that are growth centers with resources available in the area that could potentially lead the economic transformation of the region. These growth centers could also be block headquarter villages or census towns. The clusters could then be formed by identifying

		geographically contiguous villages/gram panchayats within a radius of 5–10 km (or radius appropriate to the population density and geography of the region) around the identified growth center.
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Context – Aibawk cluster in the Aizwal, Mizoram becomes the first cluster to be completed under the Shyama Prasad Mukherji Rurban Mission

Q.30) With reference to ‘UNESCO World Heritage Sites’, consider the following statements

1. It is a landmark or area with legal protection by an international convention administered by the UNESCO
2. A nominated site must meet at least one of the ten selection criteria to be enlisted as a world heritage site
3. The nominated sites are evaluated by World Heritage Committee which makes recommendation to the UNESCO for designation

Choose the correct answer using the code given below

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

Q.30) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
A World Heritage Site (WHS) is a landmark or area with legal protection by an international convention administered by the UNESCO under the UNESCO World Heritage Convention, established in 1972. These sites are designated by	There are ten selection criteria – a site must meet at least one to be included on the list	The nominated sites are evaluated by the International Council on Monuments and Sites and the World Conservation Union. A country may not nominate sites that have not been first included on its Tentative List. The two international bodies make recommendations to the World Heritage

UNESCO for having cultural, historical, scientific or other forms of significance.		Committee for new designations. The Committee meets once a year to determine what nominated properties to add to the World Heritage List
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Context – A third of the glaciers on the UNESCO World Heritage list are under threat, according to a study conducted by the UN body.

Q.31) 'Apis Karinjodian' seen in news recently is a species of

- a) Butterflies
- b) Honeybees
- c) Amphibians
- d) Orchid

Q.31) Solution(b)

A new species of endemic honeybee named *Apis karinjodian* or Indian black honeybee, has been discovered in the Western Ghats, taking the species of honeybees in the world to 11. The distribution of *Apis karinjodian* ranges from the central Western Ghats and Nilgiris to the southern Western Ghats, covering the States of Goa, Karnataka, Kerala and Tamil Nadu.

Context - A new species of endemic honeybee has been discovered in the Western Ghats.

Q.32) Consider the following statements with respect to 'Particularly Vulnerable Tribal Groups'

1. It was formed on the basis of recommendations of the Bhuria Commission
2. The PVTGs are identified and designated by the Ministry of Tribal Affairs

Select the correct statement(s)

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

Q.32) Solution(d)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Incorrect
In 1973, the Dhebar Commission created Primitive Tribal Groups (PTGs) as a separate category, who are less developed among the tribal groups. In 1975, the Government of India initiated to identify the most vulnerable tribal groups as a separate category called PVTGs and declared 52 such groups, while in 1993 an additional 23 groups were added to the category, making it a total of 75 PVTGs, spread over 18 states and one Union Territory (A&N Islands) in the country (2011 census).	As per Census 2011, there are a total of 75 PVTGs out of 705 Scheduled Tribes, spread over 17 states and one Union Territory (UT). The categorization is done by the Ministry of Home Affairs and not by the Ministry of Tribal affairs.

Context – The Anthropological Survey of India (AnSI) has recreated the huts of several Particularly Vulnerable Tribal Groups (PVTGs) at its different regional centres.

Q.33) Consider the following statements with respect to 'National Bioenergy Programme'

1. The programme support setting up of pellets and briquettes for use in power generation and non-bagasse based power generation projects
2. It is an initiative of Ministry of New and Renewable Energy
3. Waste to Energy sub-component of the programme supports setting up of large Biogas, BioCNG and power plants using municipal solid waste

Choose the correct answer using the code given below

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

Q.33) Solution(a)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
Biomass Programme under the NBP (Scheme to Support Manufacturing of Briquettes & Pellets and Promotion of Biomass (non-bagasse) based cogeneration in Industries) will support setting up of pellets and briquettes for use in power generation and non-bagasse based power generation projects.	The Ministry of New and Renewable Energy (MNRE), Government of India has notified the National Bioenergy Programme. MNRE has continued the National Bioenergy Programme for the period from FY 2021-22 to 2025-26. The Programme has been recommended for implementation in two Phases.	Waste to Energy Programme (Programme on Energy from Urban, Industrial and Agricultural Wastes /Residues) will support setting up of large Biogas, BioCNG and Power plants (excluding MSW to Power projects).

Context - The Ministry of New and Renewable Energy (MNRE), Government of India notified the National Bioenergy Programme

Q.34) Consider the following statements with respect to 'District Mineral Foundation'

1. The concept of DMF was introduced through amendment in Mines & Minerals (Development & Regulation) MMDR Act of 1957
2. Union Government is mandated to establish a DMF in every district of the country affected by mining operations
3. A District Mineral Foundation (DMF) is responsible for implementing the Pradhan Mantri Khanij Kshetra Kalyan Yojana (PMKKKY)

Choose the correct answer using the code given below

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

Q.34) Solution(c)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
The concept of DMF was introduced through amendment in Mines & Minerals (Development & Regulation) MMDR Act, 1957. The State Government can establish a DMF as a trust or non-profit body, and contributions from miners fund a DMF.	Section 9B of the Mines and Minerals (Development and Regulation) Act, 1957 (hereinafter referred to as the "Act) mandates that the State Governments shall, by notification, establish a District Mineral Foundation in every district in the country affected by mining related operations.	A District Mineral Foundation (DMF) is responsible for implementing the Pradhan Mantri Khanij Kshetra Kalyan Yojana (PMKKKY)

Context - As per the latest figures of Ministry of Mines, District Mineral Foundation (DMF) has been constituted in 622 Districts spread across 23 States of India

Q.35) Consider the following statements with respect to 'Electoral Bonds'

1. All the political parties registered under the Representation of the People Act, 1951 are eligible to receive these bonds
2. Electoral Bonds may be purchased by a person who is a citizen of India or incorporated or established in India.

Select the correct statement(s)

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

Q.35) Solution(b)**Statement Analysis:**

Statement 1	Statement 2
Incorrect	Correct
Only the Political Parties registered under Section 29A of the Representation of the People Act, 1951 (43 of 1951) and which secured not less than one per cent of the votes polled in the last General Election to the House of the People or the Legislative Assembly of the State, shall be eligible to receive the Electoral Bonds. The Electoral Bonds shall be encashed by an eligible Political Party only through a Bank account with the Authorised Bank.	As per provisions of the Scheme, Electoral Bonds may be purchased by a person (as defined in item No. 2 (d) of Gazette Notification), who is a citizen of India or incorporated or established in India. A person being an individual can buy Electoral Bonds, either singly or jointly with other individuals.

Context - Sale of Electoral Bonds at Authorised Branches of State Bank of India (SBI) has been notified recently

Q.36) Consider the following statements

1. Mangroves occur in tropical, sub-tropical and even in some temperate regions of the world
2. Mangroves account for maximum carbon sequestration by the world's tropical forests
3. Mangrove Alliance for Climate was unveiled by India and UAE to accelerate the conservation and restoration of mangrove ecosystems

Choose the correct answer using the code given below

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

Q.36) Solution(b)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Incorrect

<p>A mangrove is a shrub or tree that grows in coastal saline or brackish water. The term is also used for tropical coastal vegetation consisting of such species. They occur worldwide in the tropics and subtropics and even some temperate coastal areas, mainly between latitudes 30° N and 30° S, with the greatest mangrove area within 5° of the equator.</p>	<p>Mangroves are among the most carbon-rich forests in the tropics. They account for 3% of carbon sequestered by the world's tropical forests.</p>	<p>Led by the UAE and Indonesia, the initiative seeks to scale up and accelerate the conservation and restoration of mangrove ecosystems for the benefit of communities worldwide. The announcement was made at the 27th UN Climate Change Conference (COP27), in Egypt. Five other countries — India, Sri Lanka, Australia, Japan, and Spain — have joined the Alliance.</p>
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Context - India is among the first five countries to join the MAC, at the 27th session of the Conference of the Parties (COP27) at Sharm el-Sheikh in Egypt.

Q.37) Consider the following statements with respect to 'Law Commission of India'

1. It is a non-statutory body and is constituted by a notification of the Government of India
2. It shall undertake research in law either on a reference made to it by the Central Government or suo-motu
3. The Commission has a fixed composition of six members including the chairman, who should either a retired judge of the Supreme Court or a retired Chief Justice of a High Court

Choose the correct answer using the code given below

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

Q.37) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
Law Commission of India is an executive body established by an	The Commission works on projects based on the references received	The Commission has no fixed composition,

order of the Government of India. The Commission's function is to research and advise the Government of India on legal reform, and is composed of legal experts, and headed by a retired judge.	from the Central Government and/or from the Supreme Court and High Courts. At times, keeping in view the importance of the subject matter, the Commission initiates study on specific subjects, suo motu.	no defined eligibility criteria for its chair and members, and no set functions.
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Context - Retired High Court Chief Justice Rituraj Awasthi has been appointed as the chairperson of the Law commission.

Q.38) This lake is one of the great lakes of Africa and the world's largest tropical lake. The lake borders Uganda, Kenya and Tanzania. The lake also drains into White Nile. The lake is

- a) Lake Tanganyika
- b) Lake Malawi
- c) Lake Faguibine
- d) Lake Victoria

Q.38) Solution(d)

Lake Victoria is one of the African Great Lakes. Lake Victoria is Africa's largest lake by area and the world's largest tropical lake. Kenya, Tanzania and Uganda border Lake Victoria. Lake Victoria touches the Equator in its northern side. The primary outflow of this lake is into White Nile river.

Context – The lake was in news.

Q.39) Consider the following statements with respect to 'The Protection of Children from Sexual Offences Act'

1. The Act is gender-neutral for both children and for the accused and defines a child as a person under the age of 18 years
2. The Act does not provide for any period of limitation for reporting the child sexual offences

Select the correct statement(s)

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

Q.39) Solution(c)**Statement Analysis:**

Statement 1	Statement 2
Correct	Correct
The Act defines a child as a person under the age of 18 years. The act is also gender-neutral for both children and for the accused	The POCSO Act does not provide for any period of limitation for reporting the child sexual offences. A victim can report an offence at any time even after a number of years after the abuse has been committed.

Context - Youth under the age of 18 years in relationships within or outside marriage run foul of the stringent provisions of the Protection of Children from Sexual Offences Act

Q.40) With reference to 'Group of Twenty (G20)', consider the following statements

1. It is an intergovernmental forum comprising of 20 countries across all the continents except Antarctica
2. The chair rotates annually among the members and is selected from a different regional grouping of countries
3. The Sherpa track which consists of Finance Ministers and Central Bank Governors from all G20 members specifically addresses issues related to the financial sector

Choose the correct answer using the code given below

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

Q.40) Solution(b)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect
The G20 or Group of Twenty is an	The group's chair rotates	The G20 is divided into two

<p>intergovernmental forum comprising 19 countries and the European Union (EU). The 20 members in the group: Argentina, Australia, Brazil, Canada, China, France, Germany, India, Indonesia, Italy, South Korea, Japan, Mexico, Russia, Saudi Arabia, South Africa, Turkey, the United Kingdom, the United States, and the European Union. Spain, the United Nations, the World Bank, the African Union, ASEAN, and other organizations are permanent guest invitees.</p>	<p>annually among the members and is selected from a different regional grouping of countries. The incumbent chair establishes a temporary secretariat for the duration of its term, which coordinates the group's work and organizes its meetings. To ensure continuity, the presidency is supported by a "troika" made up of the current, immediate past and next host countries.</p>	<p>channels, namely the financial track and the Sherpa track. The financial channel, which consists of Finance Ministers and Central Bank Governors from all G20 members, specifically addresses a number of agendas related to the financial sector. Meanwhile, the Sherpa track addresses other agendas that are outside the financial sector, as well as preparing various documents to be discussed at the Summit.</p>
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Context - Prime Minister Shri Narendra Modi unveiled the Logo, Theme and Website of India's G20 Presidency

Q.41) Consider the following statements with respect to 'Mother Tongue Survey of India'

1. It is a comprehensive survey which documents the mother tongue of all the citizens of the country
2. The survey was carried out by the Ministry of Home Affairs

Select the correct statement(s)

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

Q.41) Solution(b)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct

The Mother Tongue Survey of India is a project that surveys the mother tongues which are returned consistently across two and more Census decades. It also documents the linguistic features of the selected languages.

It was recently completed by the Ministry of Home Affairs. The report states that the NIC and the National Film Development Corporation (NFDC) will be documenting and preserving the linguistic data of the surveyed mother tongues in audio-video files.

Context - The Ministry of Home Affairs (MHA) has completed the Mother Tongue Survey of India (MTSI) with field videography of the country's 576 languages.

Q.42) Consider the following statements with respect to 'National Population Register'

1. It is a list of all the people residing in India and includes both the citizens and the non-citizens
2. It is being prepared at the Village, sub-District, District, State and National level under provisions of the Citizenship Act 1955
3. The demographic details for every usual resident are required and documents to establish identity are collected for verification

Choose the correct answer using the code given below

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

Q.42) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
The National Population Register (NPR) is a list of all the people residing in India and includes both the citizens and the non-citizens	It is being prepared at the local (Village/sub-Town), sub-District, District, State and National level under provisions of the Citizenship Act 1955 and the Citizenship (Registration of Citizens and issue of National Identity Cards) Rules, 2003.	The demographic details for every usual resident are required on 21 points, which include 'date and place of birth of parents,' last place of residence, Permanent Account Number (PAN), Aadhar (on a voluntary basis), Voter ID card number, Driving License Number, and Mobile Number. The objective of the NPR is to create a

		comprehensive database of usual residents in the country. No document will be collected during this exercise.
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Context - The Home Ministry emphasised the importance of updating the National Population Register (NPR) database across the country, with the exception of Assam.

Q.43) 'Garuda – VII', is an air exercise carried out by India with

- a) United Kingdom
- b) Australia
- c) France
- d) United Arab Emirates

Q.43) Solution(c)

Garuda – VII is a bilateral exercise between Indian Air Force (IAF) and French Air and Space Force (FASF). Ex Garuda-VII is also the first occasion for the light combat aircraft (LCA) Tejas and the light combat helicopter (LCH) Prachand to participate in any international exercise.

Context - The chiefs of Indian and French Air Forces recently joined the Air Exercise Garuda-VII in Jodhpur.

Q.44) Consider the following statements with respect to 'UN Human Rights Council'

1. The members of the Council are elected for three-year terms by the UN Security Council
2. Asia-Pacific states form the single largest regional group in the Council
3. Members are immediately eligible for re-election after completing a single term

Choose the INCORRECT statement(s) using the code given below

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

Q.44) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Correct
The United Nations Human Rights Council (UNHRC) is a United Nations body whose mission is to promote and protect human rights around the world. The Council consists of 47 members, elected yearly by the General Assembly for staggered three-year terms.	The seats are distributed along the following lines: 13 for the African Group 13 for the Asia-Pacific Group 6 for the Eastern European Group 8 for the Latin American and Caribbean Group 7 for the Western European and Others Group. So, Asia-Pacific Group and African Group are the joint largest groups	Members are eligible for re-election for one additional term, after which they must relinquish their seat. Members of the Council serve for a period of three years and are not eligible for immediate re-election after serving two consecutive terms.

Context - U.S., Belgium to question India on CAA, minority rights, hate speech at U.N. Human Rights Council

Q.45) Consider the following statements with respect to 'Air Quality Index'

1. The pollutants measured by the AQI in the affected air are given equal weightage
2. The AQI transforms complex air quality data of pollutants into a single number nomenclature and colour

Select the correct statement(s)

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

Q.45) Solution(b)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct
There are six or eight pollutants in the affected air and each of these	The AQI transforms complex air quality data of various pollutants into a single number (index value), nomenclature

pollutants is given a weight based on a formula. That weight depends on the kind of impact it has on human health.

and colour. The pollutants measured include PM 10, PM 2.5, Nitrogen Dioxide, Ozone, Carbon, etc. The colour-coded AQI index helps the public and the government understand the condition of the air and what subsequent measures are to be taken to combat the situation, based on its severity.

Context - The air quality in Delhi remained in the very poor category on Air Quality Index (AQI).

Q.46) Consider the following statements with respect to 'Sovereign Green Bonds Framework'

1. The proceeds generated from these bonds will be deposited to the Green Climate Fund
2. Except nuclear projects all the other energy generating projects fall under the ambit of investments through these bonds
3. The proceeds generated from the issuance of such bonds will be deployed in public sector projects

Choose the correct answer using the code given below

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

Q.46) Solution(d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Correct
The proceeds will be deposited to the Consolidated Fund of India (CFI) in line with the regular treasury policy, and then funds from the CFI will be made available for eligible green projects.	The government has excluded nuclear power and large hydropower projects of over 25 MW from the ambit of investments to be made through the issuance of sovereign green bonds. All fossil fuel-related projects have been kept out of the framework, along with biomass-based renewable energy projects that rely on feedstock from 'protected areas'.	The proceeds generated from the issuance of such bonds will be deployed in Public Sector projects which help in reducing carbon intensity of the economy.

Context - The government recently approved the final sovereign green bonds framework in line with the Budget announcement (Union Budget FY 2022-23).

Q.47) 'Mission Prarambh' seen in news recently is related to

- a) Achieving 100% digital literacy
- b) Capacity building in textiles sector
- c) Indigenous manufacturing of fertilizers
- d) Private sector participation in space sector

Q.47) Solution(d)

Mission Prarambh is a mission under which Vikram-S – India's first privately developed launch vehicle by Hyderabad-based Skyroot Aerospace will carry 3 customer satellites (2 Indian and 1 foreign) in a sub-orbital flight.

Context - Skyroot Aerospace is set to launch India's first privately developed rocket as part of the firm's maiden mission, called Prarambh.

Q.48) Consider the following statements with respect to 'Deendayal Antyodaya Yojana – National Rural Livelihood Mission (DAY-NRLM)'

1. All households identified as Below Poverty Line (BPL) is the NRLM Target Group and is eligible for all the benefits under the programme
2. Aajeevika Grameen Express Yojana (AGEY) is a sub-scheme under DAY-NRLM
3. The mission aims to cover at least one woman member from each rural poor household under the fold of Self Help Groups (SHGs)

Choose the correct answer using the code given below

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

Q.48) Solution(b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
All households identified as poor through the PIP process is the NRLM Target Group and is eligible for all the benefits under the programme. Target Group is identified through the Participatory Identification of Poor (PIP) method. The NRLM Target Group (NTG) derived through the PIP is de-linked from the BPL.	Aajeevika Grameen Express Yojana (AGEY) is a sub-scheme as part of the Deendayal Antyodaya Yojana – National Rural Livelihoods Mission (DAY-NRLM). The Self Help Groups under DAY-NRLM will operate road transport service in backward areas. This will help to provide safe, affordable and community monitored rural transport services to connect remote villages with key services and amenities (such as access to markets, education and health) for the overall economic development of backward rural areas.	The mission aims to bring at least one woman member from each identified rural poor household, is to be brought under the Self Help Group (SHG) network in a time bound manner

Context - Ministry of Rural Development (MoRD) has signed an MoU with Gurugram-based Veddis Foundation to support setting up of effective governance systems under the Deendayal Antyodaya Yojana - National Rural Livelihood Mission (DAY-NRLM)

Q.49) With reference to 'Dynamic Ground Water Resource Assessment Report', consider the following statements

1. The assessment was carried out jointly by Central Ground Water Board (CGWB), States and Union Territories
2. The assessment suggests that ground water extraction in this year has been the highest since the inception of this survey

Select the correct statement(s)

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

d) Neither 1 nor 2

Q.49) Solution(a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
The assessment was carried out jointly by Central Ground Water Board (CGWB), States and Union Territories. Such joint exercises between the CGWB and States/Union Territories were carried out earlier in 1980, 1995, 2004, 2009, 2011, 2013, 2017 and 2020.	An assessment in 2020 found that the annual groundwater recharge was 436 bcm and extraction 245 bcm. In 2017, recharge was 432 bcm and extraction 249 bcm. The 2022 assessment suggests that groundwater extraction is the lowest since 2004, when it was 231 bcm.

Context - The Union Minister of Jal Shakti today released the Dynamic Ground Water Resource Assessment Report for the entire country for the year 2022.

Q.50) Consider the following statements with respect to 'Aerosol Optical Depth'

1. It is the quantitative estimate of the aerosol present in the atmosphere and can be used as a proxy measurement of PM2.5
2. It is measured on the basis of how much light is getting diffracted due to the presence of particulate matter

Select the correct statement(s)

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

Q.50) Solution(a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect

Aerosol optical depth (AOD) is the quantitative estimate of the aerosol present in the atmosphere and can be used as a proxy measurement of PM2.5.

AOD is measured on the basis of how much light is getting attenuated due to the presence of particulate matter. The values of AOD range from 0 to 1.0. While 0 indicates a crystal-clear sky with maximum visibility, a value of 1 indicates very hazy conditions.

Context - A recent study by scientists from the Bose Institute in Kolkata has revealed that aerosol pollution in West Bengal is anticipated to rise by 8% and continue to remain in the “highly vulnerable” red zone in 2023.

Q.51) Consider the following statements with respect to ‘Central Counterparty Clearinghouse(CCP)’

1. It is an entity that helps facilitate trading in various European derivatives and equities markets
2. A CCP acts as a counterparty to both sellers and buyers which allows it to guarantee the terms of a trade
3. A CCP is authorized by the RBI to operate in India under Banking Regulation Act of 2007

Select the correct answer using the code given below

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

Q.51) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
A central counterparty clearing house (CCP) is an entity that helps facilitate trading in various European derivatives and equities markets. Typically operated by the major banks in each country, CCPs strive to introduce efficiency and stability into various financial markets.	A CCP acts as a counterparty to both sellers and buyers, collecting money from each, which allows it to guarantee the terms of a trade. CCPs perform two main functions as the intermediary in a market transaction clearing and settlement and guarantee the terms of a trade.	A CCP is authorised by the RBI to operate in India under Payment and Settlement Systems Act, 2007.

Context - The European Union's financial markets regulator European Securities and Markets Authority (ESMA) said it will withdraw recognition of six Indian clearing bodies or central counterparties (CCPs).

Q.52) Which Commission recommended that the Governor of a State should be appointed by the President only after consultation with the Chief Minister of that State.

- a) Rajmannar Commission
- b) Administrative Reforms Commission
- c) Sarkaria Commission
- d) Punchhi Commission

Q.52) Solution(c)

Sarkaria commission's recommended that the powers of the President in the matter of selection and appointment of Governors should not be diluted. However, the Governor of a State should be appointed by the President only after consultation with the Chief Minister of that State. Normally the five-year term should be adhered to and removal or transfer should be by following a similar procedure as for appointment i.e., after consultation with the Chief Minister of the concerned State.

Context – There is a debate on the role of the Raj Bhavan and conduct of Governors, and whether Chief Ministers should have a say in the appointment of Governors in their respective States.

Q.53) With reference to 'Compulsorily Convertible Preference Shares (CCPS)', consider the following statements

1. CCPS offer fixed income to the investors and compulsorily convert into Equity Shares of the issuing company after a predetermined period
2. The concept of conversion of Compulsory Convertible Preference Shares (CCPS) into Shares is governed by the Companies Act, 2013

Select the INCORRECT statement(s)

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

Q.53) Solution(b)**Statement Analysis:**

Statement 1	Statement 2
Correct	Incorrect
CCPS offer fixed income to the investors and compulsorily convert into Equity Shares of the issuing company after a predetermined period. The terms of conversion are also pre-decided at the time of issue.	The concept of conversion of Compulsory Convertible Preference Shares (CCPS) into Equity Shares is not governed by any section of the Companies Act, 2013 but if combined the certain Provisions of Companies Act, 2013, one can easily opine the conversion.

Context - Insurance regulator IRDAI has rejected Fairfax proposal to convert the company's holdings in compulsory convertible preferred shares (CCPS) issued by Go Digit Infoworks into equity shares.

Q.54) Consider the following statements with respect to 'E-waste (management) rules 2022'

1. These rules apply to every manufacturer, producer refurbisher, user, dismantler and recycler of e-waste
2. Producers of electronic goods have to ensure at least 60% of their electronic waste is collected and recycled by 2023
3. The rules require the refurbished equipment be as per Compulsory Registration Scheme of the Ministry of Environment, Forest and Climate Change

Choose the correct answer using the code given below

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

Q.54) Solution(b)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect
These rules apply to every	Producers of electronic	All refurbisher must collect e-

<p>manufacturer, producer refurbisher, dismantler and recycler involved in manufacture, sale, transfer, purchase, refurbishing, dismantling, recycling and processing of e-waste or electrical and electronic equipment listed in Schedule I, including their components, consumables, parts and spares which make the product operational. This doesn't apply to users though.</p>	<p>goods have to ensure at least 60% of their electronic waste is collected and recycled by 2023 with targets to increase them to 70% and 80% in 2024 and 2025, respectively.</p>	<p>waste generated during the process of refurbishing and hand over the waste to registered recycler and upload information on the portal; ensure that the refurbished equipment shall be as per Compulsory Registration Scheme of the Ministry of Electronics and Information Technology and Standards of Bureau of Indian Standards framed for this purpose</p>
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Context - Government notified E-Waste (Management) Rules, 2022

Q.55) Consider the following statements with respect to 'Extradition'

1. An Extradition request for an accused can be initiated only in the case of convicted criminals and not in case of under-trials
2. Fugitive Economic Offenders Act governs the law relating to extradition of fugitives from India to a foreign state and vice-versa

Select the correct statement(s)

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

Q.55) Solution(d)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Incorrect
An Extradition request for an accused can be initiated in the case of under-investigation, under-trial and convicted criminals. In cases under	Under Indian law, the Extradition Act, 1962, deals with the law relating to extradition of fugitives from India to a foreign state and vice-versa. This

investigation, abundant precautions have to be exercised by the law enforcement agency to ensure that it is in possession of prima facie evidence to sustain the allegation before the Courts of Law in the Foreign State.

Act is read along with the relevant extradition treaties, arrangements and conventions between India and the concerned country, which are recognised in the Act for the purpose of seeking surrender of the fugitive.

Context - Extradition of Nirav Modi to India has been cleared by the UK high court.

Q.56) Consider the following statements with respect to ‘Solar Energy Corporation of India’

1. It is the only Central Public Sector Undertaking (PSU) dedicated to the solar energy sector
2. SECI is responsible for determining solar power tariffs in India

Select the correct statement(s)

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

Q.56) Solution(a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
"Solar Energy Corporation of India Ltd" (SECI) is a CPSU under the administrative control of the Ministry of New and Renewable Energy (MNRE), set up on 20th Sept, 2011 to facilitate the implementation of NSM and achievement of targets set therein. It is the only CPSU dedicated to the solar energy sector. It was originally incorporated as a section-25 (not for profit) company under the Companies Act, 1956.	Central Electricity Regulation Commission(CERC) is responsible for regulating the tariff of generating companies owned or controlled by the Government of India

Context - The delegation of Solar Energy Corporation of India (SECI) headed by its Managing Director visited COP 27, Sharm El Sheikh, Egypt.

Q.57) ‘Takeover code’ seen in news recently is used in the context of

- a) Network security
- b) Non-fungible tokens
- c) Acquisition of shares
- d) Rules guiding acquisition of digital entities

Q.57) Solution(c)

The Takeover Code seeks to ensure that the securities market in India operates in a fair, equitable and transparent manner. Sebi (Substantial Acquisition of Shares and Takeovers) Regulations, 2011 or the Takeover Code governs disclosure and mandatory bid obligation norms for the companies listed on recognised stock exchanges in the country.

Context - The Security and Exchange Board of India made amendments to the takeover code.

Q.58) With reference to 'DigiLocker', consider the following statements

1. The issued documents in DigiLocker system are deemed to be at par with original physical documents
2. It is a flagship initiative of Ministry of Electronics & IT (MeitY) under Digital India programme
3. DigiLocker can only be used to securely store e-documents as of now

Choose the correct answer using the code given below

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

Q.58) Solution(b)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
The issued documents in DigiLocker system are deemed to be at par with original	DigiLocker is an Indian digitization online service provided by Ministry of Electronics and Information Technology (MeitY),	Apart from e-documents, DigiLocker can store

physical documents as per Rule 9A of the Information Technology (Preservation and Retention of Information by Intermediaries providing Digital Locker facilities) Rules, 2016.	Government of India under its Digital India initiative. DigiLocker provides an account in cloud to every Aadhaar holder to access authentic documents/certificates such as driving license, vehicle registration, academic mark sheet in digital format from the original issuers of these certificates.	Uniform Resource Identifier (URI) link of e-documents issued by various issuer departments.
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Context - DigiLocker, the authentic documents exchange platform under the Ministry of Electronics and Information Technology has successfully completed its second-level of integration with Ayushman Bharat Digital Mission (ABDM).

Q.59) Consider the following pairs

Species: IUCN status

1. Indian Skimmer: Near Threatened
2. Snow Leopard: Vulnerable
3. Himalayan Gray Langur: Endangered
4. Chital: Least Concern

Which of the pair(s) given above is/are correctly matched

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

Q.59) Solution(c)

Indian Skimmer	Endangered
Snow Leopard	Vulnerable
Himalayan Gray Langur	Endangered
Chital	Least Concern

Context – These species were in news

Q.60) Consider the following statements with respect to 'Currency Monitoring List'

1. It is a list of countries that are monitored for currency manipulation by the International Monetary Fund
2. A fall in the value of currency by ten or more percentage points over the last fiscal year is one of the criteria to added to the list

Select the correct statement(s)

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

Q.60) Solution(d)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Incorrect
The list is maintained by the United States Department of Treasury. Currency Monitoring List consists of major trading partners that merit close attention to their currency practices and macroeconomic policies.	There are three criteria the US Treasury looks at in placing a country on the watch list: 1. Significant trade surplus with the US (at least \$20 billion in 12 months) 2. A large current account surplus (at least 2 per cent of GDP over a 12-month period) 3. "Persistent", one-sided intervention (when net purchases of foreign currency totalling at least 2 per cent of the country's GDP over a 12-month period are conducted repeatedly, in at least six out of 12 months). The countries that meet two out of the three criteria are placed on the watch list.

Context - India is among the few countries recently removed from the United States Currency Monitoring List which is released by the Department of Treasury.

Q.61) Consider the following statements with respect to 'Methane Alert and Response System (MARS)'

1. It will integrate data from a large number of observatories across the world that have the ability to detect methane emission events
2. The data-to-action platform was set up as part of the UNFCCC's International Methane Emissions Observatory (IMEO)

Select the correct statement(s)

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

Q.61) Solution(d)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Incorrect
MARS will integrate data from a large number of existing and future satellites that have the ability to detect methane emission events anywhere in the world, and send out notifications to the relevant stakeholders to act on it.	The data-to-action platform was set up as part of the UN Environment Programme's (UNEP) International Methane Emissions Observatory (IMEO) strategy to get policy-relevant data into the right hands for emissions mitigation. The system will be the first publicly available global system to connect methane detection to notification processes transparently.

Context - The Methane Alert and Response System (MARS) was launched at the COP27 to the United Nations Framework Convention on Climate Change in Sharm El-Sheikh, Egypt.

Q.62) With respect to 'Ninth Schedule of Indian Constitution', consider the following statements

1. The Ninth Schedule contains a list of central and state laws which cannot be challenged in courts
2. It was added by the first Constitutional Amendment to protect laws from judicial scrutiny
3. Laws placed under Ninth Schedule can be challenged on the grounds of violation of fundamental rights

Choose the correct answer using the code given below

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

Q.62) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
The Ninth Schedule contains a list of central and state laws which cannot be challenged in courts. Currently, 284 such laws are shielded from judicial review. Most of the laws protected under the Schedule concern agriculture/land issues.	The Schedule became a part of the Constitution in 1951, when the document was amended for the first time. The First Amendment added 13 laws to the Schedule. Subsequent amendments in 1955, 1964, 1971, 1974, 1975, 1976, 1984, 1990, 1994, and 1999 have taken the number of protected laws to 284.	While laws placed under Ninth Schedule cannot be challenged on the grounds of violation of fundamental rights, they can be challenged on the ground of violating the basic structure of the Constitution. The court clarified that the laws cannot escape the “basic structure” test if inserted into the Ninth Schedule after 1973, as it was in 1973 that the basic structure test was evolved in the Kesavananda Bharati case as the ultimate test to examine the constitutional validity of laws.

Context - The Jharkhand Assembly on Friday (November 11) cleared two Bills, one increasing reservation in vacant government posts and services in the state to 77 per cent

Q.63) ‘Permacrisis’ a word often seen in news recently is related to

- a) Melting of glaciers
- b) Prolonged crisis
- c) Government instability
- d) Long run inflation

Q.63) Solution(b)

'Permacrisis' is a word that describes living in an age of continued upheaval; Collins defines the noun as 'an extended period of instability and insecurity'. It perfectly embodies the dizzying sense of lurching from one unprecedented event to another, as we wonder bleakly what new horrors might be around the corner."

Context - The Collins Dictionary's word of the year for 2022 is "permacrisis"

Q.64) Consider the following statements with respect to 'Aroma Mission'

1. Development of superior varieties and assessment of their suitability for specific agro-climatic regions is one of the objectives of the mission
2. The mission is a joint initiative of Ministry of Agriculture and Ministry of Commerce and Industry

Select the correct statement(s)

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

Q.64) Solution(a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
The objectives include: Development of superior varieties and their agro-technologies and assessment of their suitability for specific agro-climatic regions, Value-addition of aromatic crops (High-end aroma chemicals and products), Skill development activities, Intellectual property generation, valuation and management Entrepreneurship, development/Spin-offs, Business development, Making the public aware of Mission activities and achievements using an appropriate interface.	CSIR-AROMA Mission, under the Ministry of Science & Technology aims to develop and disseminate the aroma-related science and technology to reach the end user/clients of CSIR: Farmers, industry and society.

Context - Jammu and Kashmir's Ramban will soon initiate lavender cultivation under the Aroma Mission

Q.65) Consider the following statements

1. Coastal nations are responsible for addressing Illegal, Unreported and Unregulated (IUU) fishing issues within their respective EEZ under UNCLOS
2. India is a signatory to the Cape Town Agreement but not the Agreement on Ports State Measures, both of which regulate IUU fishing
3. WTO's Agreement on Fisheries Subsidies (AFS) prohibits providing subsidies for fishing on high seas which are outside the jurisdiction of coastal countries

Choose the correct answer using the code given below

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

Q.65) Solution(c)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
As per the United Nations Convention on the Law of the Sea (UNCLOS), coastal nations are responsible for addressing IUU fishing issues within their respective EEZ.	There are two main regulations globally on IUU fishing: the Cape Town Agreement and the Agreement on Ports State Measures. Currently, India is not a signatory of either agreement.	WTO's Agreement on Fisheries Subsidies (AFS) prohibits subsidies from being provided for IUU fishing and overfished stocks. The agreement also prohibits providing subsidies for fishing on high seas, which are outside the jurisdiction of coastal countries.

Context - Chinese fishing vessels, fishing vessels from European Union countries and other countries from outside the region were observed to be fishing in the Indian Ocean according to Indian Navy

Q.66) Consider the following statements with respect to 'The Places of Worship Act'

1. It provides for the maintenance of the religious character of all places of worship as it existed on the 15th day of August, 1947
2. The Act applies to any place of worship which is an ancient and historical monument covered by the Ancient Monuments and Archaeological Sites and Remains Act, 1958

Select the correct statement(s)

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

Q.66) Solution(d)**Statement Analysis:**

Statement 1	Statement 2
Incorrect	Incorrect
The act provides for the maintenance of the religious character of any place of worship as it existed on the 15th day of August, 1947. However, Section 5 stipulates that the Act shall not apply to the Ramjanmabhoomi-Babri Masjid case, and to any suit, appeal, or proceeding relating to it.	Besides the Ayodhya dispute, the Act also exempted: Any place of worship which is an ancient and historical monument, or an archaeological site covered by the Ancient Monuments and Archaeological Sites and Remains Act, 1958. A suit that has been finally settled or disposed of. Any dispute that has been settled by the parties or conversion of any place that took place by acquiescence before the Act commenced.

Context - The Supreme Court granted Central government more time to file an affidavit on the challenges to the Places of Worship Act of 1991.

Q.67) With reference to 'In Our LiFEtime' campaign, consider the following statements

1. The campaign aims to encourage people under the age of 30 to become message bearers of sustainable lifestyles
2. It is a joint initiative of National Museum of Natural History (NMNH), under the Ministry of Environment Forest and Climate Change and United Nations Development Programme (UNDP)

Select the correct statement(s)

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

Q.67) Solution(b)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct
It aims to encourage youth between the ages of 18 to 23 years to become message bearers of sustainable lifestyles. This campaign envisions to recognize youth from around the world taking climate action initiatives that resonate with the concept of LiFE.	National Museum of Natural History (NMNH), under the Ministry of Environment Forest and Climate Change and United Nations Development Programme (UNDP), jointly launched "In Our LiFEtime" campaign.

Context - "In our LiFEtime" Campaign was recently launched by India at COP 27, Sharm El-Sheikh.

Q.68) Consider the following statements with respect to 'Photonic Crystals'

1. Photonic crystals are optical nanostructures in which the refractive index changes periodically
2. Photonic crystals also occur in nature in the form of structural coloration and animal reflectors
3. Photonic crystals allows lights of all wavelengths and hence cannot be used to trap light like a nanophotonic resonator

Choose the correct answer using the code given below

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

Q.68) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
Photonic crystals are optical nanostructures in which the refractive index changes periodically. This affects the propagation of light in the same way that the structure of natural crystals gives rise to X-ray diffraction and that the atomic lattices (crystal structure) of semiconductors affect their conductivity of electrons.	Photonic crystals occur in nature in the form of structural coloration and animal reflectors. Examples found in nature include opal, butterfly wings, peacock feathers, etc., exhibiting distinct iridescent colours.	Photonic crystals contain regularly repeating regions of high and low refractive index. Light waves may propagate through this structure or propagation may be disallowed, depending on their wavelength. Wavelengths that may propagate in a given direction are called modes, and the ranges of wavelengths which propagate are called bands. Disallowed bands of wavelengths are called photonic band gaps. Photonic crystals can guide or to trap the light with the same function as nanophotonic resonator

Context - Graphene-stabilised tunable photonic crystal can make more durable & better reflective display and lasers devices

Q.69) Consider the following statements with respect to 'Grid Controller of India Limited '

1. The Grid Controller of India Limited (Grid-India) is a wholly owned central government enterprise that comes under the aegis of the Ministry of Power
2. Grid Controller of India Limited (Grid-India) operates the National Load Despatch Centre (NLDC) and only supervises Regional Load Despatch Centres (RLDCs)
3. It is designated as the nodal agency for implementation and operation of Green Energy Open Access Portal, Renewable Energy Certificate (REC) Mechanism

Choose the correct answer using the code given below

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

Q.69) Solution(d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
The Grid Controller of India Limited (Grid-India) is a wholly owned central government enterprise that comes under the aegis of the Ministry of Power. Previously, it was a fully owned subsidiary of the Power Grid Corporation of India Limited (Powergrid) – the central public sector undertaking (PSU) owned by the Union Power Ministry.	“Grid Controller of India Limited (Grid-India)” operates the National Load Despatch Centre (NLDC) and also the five (5) Regional Load Despatch Centres (RLDCs).	Grid-India is also designated as the nodal agency for major reforms in the power sector such as implementation and operation of Green Energy Open Access Portal, Renewable Energy Certificate (REC) Mechanism, transmission pricing, short term open access in transmission, Deviation Settlement Mechanism, Power System Development Fund (PSDF), etc.

Context - Power System Operation Corporation Limited is now Grid Controller of India Limited

Q.70) In which one of the following groups are all the four countries members of East Asia Summit?

- a) Brunei, Malaysia, Thailand and Canada
- b) Australia, Singapore, Mongolia and India
- c) Indonesia, New Zealand, Vietnam and Russia
- d) Philippines, South Korea, Sri Lanka and United States

Q.70) Solution(c)

The members of EAS are Australia, Brunei, Cambodia, China, India, Indonesia, Japan, Laos, Malaysia, Myanmar, New Zealand, Philippines, Russia, Singapore, South Korea, Thailand, United States, Vietnam

Context – Vice president of India addressed the East Asia Summit in Cambodia

Q.71) Consider the following statements with respect to ‘Controller General of Patents, Designs, and Trade Marks’

1. The Office of the Patents, Designs and Trade Marks (CGPDTM) is an attached office to the Department of Industrial Policy and Promotion.

2. Geographical Indications Registry has been established under the CGPDTM to administer the Geographical Indications of Goods (Registration and Protection) Act, 1999

Select the correct statement(s)

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

Q.71) Solution(b)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct
The Office of the Patents, Designs and Trade Marks (CGPDTM) is a subordinate office under the Department of Industrial Policy and Promotion. The Controller General administers the working of the Patents Act, 1970, the Trade Marks Act, 1999, the Geographical Indications of Goods (Registration and Protection) Act, 1999 and the Designs Act, 2000 and also renders advice to the Government on matters relating to Intellectual Property Rights.	In order to protect the Geographical Indications of goods a Geographical Indications Registry has been established in Chennai to administer the Geographical Indications of Goods (Registration and Protection) Act, 1999 under the CGPDTM.

Context - Union Minister of Commerce and Industry, Consumer Affairs, Food and Public Distribution and Textiles held a meeting to review various matters and initiatives related to the Office of Controller General of Patents Designs and Trademarks (CGPDTM)

Q.72) With reference to 'Artemis-1 mission', consider the following statements

1. It is only a lunar Orbiter mission unlike most Orbiter missions has a return-to-Earth target
2. The primary operating goal of the mission is to study the dark side of the moon and look for traces of water

Select the correct statement(s)

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

Q.72) Solution(a)**Statement Analysis:**

Statement 1	Statement 2
Correct	Incorrect
It is only a lunar Orbiter mission even though, unlike most Orbiter missions, it has a return-to-Earth target — it is intended to lay the foundations for more complex and ambitious missions. The CubeSats it will carry are equipped with instruments meant for specific investigations and experiments, including searching for water in all forms and for hydrogen that can be utilised as a source of energy.	The primary operating goal of the mission is to assure a safe crew module entry, descent, splashdown, and recovery. It does not intend to study the dark side of the moon.

Context – NASA's Artemis 1 Mission was launched recently**Q.73) Consider the following statements with respect to 'United Nations General Assembly Resolutions'**

1. Resolutions adopted by the GA are recommendatory and are not legally binding on the Member States unlike Security Council(UNSC) resolutions
2. All General Assembly resolutions require a simple majority to pass
3. General Assembly resolutions are usually held by secret ballot and voted on by all member states of the United Nations in the General Assembly

Choose the correct answer using the code given below

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

Q.73) Solution(b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Incorrect
According to Article 10 of the UN Charter which defines the Functions and Powers of the GA, “ The General Assembly may discuss any questions or any matters within the scope of the present Charter or relating to the powers and functions of any organs provided for in the present Charter, and,...may make recommendations to the Members of the United Nations or the Security Council or to both on any such questions or matters.” In other words, resolutions adopted by the GA on agenda items are considered to be recommendations and are not legally binding on the Member States. The only resolutions that have the potential to be legally binding are those that are adopted by the Security Council.	General Assembly resolutions usually require a simple majority (50 percent of all votes plus one) to pass. However, if the General Assembly determines that the issue is an "important question" by a simple majority vote, then a two-thirds majority is required; "important questions" are those that deal significantly with the maintenance of international peace and security, admission of new members to the United Nations, suspension of the rights and privileges of membership, the expulsion of members, operation of the trusteeship system, or budgetary questions.	A United Nations General Assembly resolution is a decision or declaration voted on by all member states of the United Nations in the General Assembly. UNGA voting is generally held in public.

Context - India abstained from the UNGA resolution calling for reparation to be paid to Ukraine by Russia.

Q.74) ‘Hezbollah’ a militant group often seen in news mainly operates in

- a) Syria
- b) Yemen
- c) Lebanon
- d) Somalia

Q.74) Solution(c)

Hezbollah is a Lebanese Shia Islamist political party and militant group led by its Secretary-General Hassan Nasrallah since 1992. Hezbollah's paramilitary wing is the Jihad Council and its political wing is the Loyalty to the Resistance Bloc party in the Lebanese Parliament.

Context – It was in news.

Q.75) Consider the following statements with respect to 'Birsa Munda'

1. He spearheaded a tribal religious millenarian movement that arose in the Chotanagpur region in the late 19th century
2. He challenged the Christian missionaries and revolted against the conversion activities
3. He observed the Sardari Larai movement which demanded the restoration of tribal rights through non-violent methods like sending petitions to the Raj

Choose the correct answer using the code given below

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

Q.75) Solution(d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
Birsa Munda was an Indian tribal freedom fighter, and folk hero who belonged to the Munda tribe. He spearheaded a tribal religious millenarian movement that arose in the Bengal Presidency (Chotanagpur region) in the late 19th century, during the British Raj, thereby making him an important figure in the history of the Indian	Birsa Munda is known for challenging the Christian missionaries and revolting against the conversion activities along with the Munda and Oraon communities. Having gained awareness of the British colonial ruler and the efforts of the missionaries to convert tribals to Christianity, Birsa started the faith of 'Birsait'.	During the 1880s, Birsa observed the Sardari Larai movement in the region, which demanded the restoration of tribal rights through non-violent methods like sending petitions to the Raj. But the oppressive colonial regime paid no heed to these demands and the zamindari system soon reduced the tribals from

independence movement.

landowners to laborers.

Context - The Prime Minister paid tributes to tribal leader Birsa Munda on his birth anniversary on 15th November.

Q.76) Consider the following statements with respect to 'Patan Patola'

1. The art with its origins in 11th century bear an equal intensity of colours and design on both sides.
2. It is made from a technique of dyeing or knot dyeing known as 'bandhani' on the warp and weft separately before weaving.

Select the correct statement(s)

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

Q.76) Solution(c)

Statement Analysis:

Statement 1	Statement 2
Correct	Correct
The ancient art of double ikat or Patola woven in pure silk dates back to the 11th century. The Patola fabrics bear an equal intensity of colours and design on both sides.	This peculiar quality has its origins in an intricate and difficult technique of dyeing or knot dyeing, known as 'bandhani', on the warp and weft separately before weaving.

Context - PM Narendra Modi gifted 'Patan Patola Dupatta' (scarf) to Italian PM Giorgia Meloni

Q.77) With reference to 'National Investment and Infrastructure Fund (NIIF)', consider the following statements

1. It is a sovereign wealth fund set up to maximize economic impact mainly through infrastructure investment in commercially viable greenfield projects only

2. The Governing Council of the (NIIF) is chaired by the Union Finance Minister and has members from corporate bodies, investments and policy sectors
3. Strategic Opportunities Fund under NIIF primarily invests in operating assets in the core infrastructure sectors such as roads, ports, airports and power

Choose the correct answer using the code given below

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

Q.77) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect
National Investment and Infrastructure Fund (NIIF) is India's first infrastructure specific investment fund or a sovereign wealth fund that was set up by the Government of India in February 2015. The objective behind creating this fund was to maximize economic impact mainly through infrastructure investment in commercially viable projects, both greenfield and brownfield.	The Governing Council of the National Investment and Infrastructure Fund (NIIF) is chaired by the Hon'ble Finance Minister of India and has members from corporate bodies, investments and policy sectors. The Governing Council meets once a year and provides suggestions of the overall strategic decisions of the NIIF. As of August 2022, the Governing Council is chaired by Hon'ble Finance Minister of India Nirmala Sitharaman.	NIIF manages three funds: Master Fund, Fund of Funds and Strategic Fund. The Master Fund is an infrastructure fund with the objective of primarily investing in operating assets in the core infrastructure sectors such as roads, ports, airports, power etc

Context - Union Finance Minister chaired 5th Meeting of Governing Council of National Investment and Infrastructure Fund (NIIF)

Q.78) 'Moscow Format' often seen in news is used in the context of

- a) Investment in Far East
- b) Afghan peace process
- c) Halting production of nuclear weapons
- d) Exploration of resources in the Arctic region

Q.78) Solution(b)

The Moscow format is one of the several dialogue platforms on Afghanistan — which began before the Taliban takeover of Kabul. It consists of Russia, China, Pakistan, Iran, Kazakhstan, Tajikistan, Kyrgyzstan, Uzbekistan, Turkmenistan and India. The key objective of the Moscow format of consultations is to facilitate the national reconciliation process in Afghanistan to establish peace.

Context - India joined the latest meeting of the 'Moscow format consultations on Afghanistan' that was in the Russian capital.

Q.79) Consider the following statements with respect to 'Infrastructure for Resilient Island States' (IRIS)

1. IRIS is a flagship initiative that has been designed to deliver resilience and climate adaptation solutions to all the island countries
2. It was launched at World Leaders Summit at COP 27 by the Coalition for Disaster Resilient Infrastructure

Select the correct statement(s)

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

Q.79) Solution(d)**Statement Analysis:**

Statement 1	Statement 2
Incorrect	Incorrect
IRIS is a flagship strategic initiative that has been	IRIS was launched at the World Leaders Summit at

designed as an instrument to achieve and deliver resilience and climate adaptation solutions to the SIDS, which are among the most vulnerable and exposed countries and not all island countries.

COP26 by India, UK, Australia, Jamaica, Mauritius and Fiji. It is a joint platform to facilitate cross learning, sharing and engagement on solutions to infrastructure resilience in SIDS.

Context - IRIS will be the first initiative that will be rolled out through the Infrastructure Resilience Accelerator Fund (IRAF), launched by the Coalition for Disaster Resilient Infrastructure (CDRI) last week at COP 27.

Q.80) Consider the following statements with respect to 'National list of Essential medicines (NLEM)'

1. National Pharmaceutical Pricing Authority under Ministry of Chemicals and Fertilizer announces an upper and lower cap on the pricing of essential medicine
2. The list is continuously updated and released every two years by The Ministry of Health and Family Welfare
3. As a principle single dose medicines are to be preferred over Fixed Dose Combinations (FDCs) in NLEM

Choose the correct answer using the code given below

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

Q.80) Solution(d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Correct
The medicines listed in the NLEM are sold below a price ceiling fixed by the National Pharmaceutical Pricing Authority (NPPA). The cap on its pricing is decided by NPPA under the	The Ministry of Health and Family Welfare prepared and released the first National List of Essential Medicines of India in 1996 consisting of 279 medicines.	As a principle, single medicines are to be preferred. FDCs are included only if the combination is rational and has a proven advantage with respect to therapeutic effect, safety and compliance or in decreasing the

<p>Ministry of Chemicals and Fertilizers. While, there is an upper cap above which a medicine can't be sold, there is no lower cap.</p>	<p>This list was subsequently revised in 2003, 2011, 2015 and 2022. It is announced with a set timeframe</p>	<p>emergence of drug resistance. Some examples are, diseases such as malaria, Human Immunodeficiency Virus (HIV) infection/ Acquired Immunodeficiency Syndrome (AIDS), where the emergence of antimicrobial resistance is an important issue, which may be partly caused by poor compliance. In these therapeutic categories, certain FDCs have been considered as essential.</p>
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Context - Ministry of Chemicals and Fertilizers has brought 34 new essential medicines (in NLEM) under its pricing regulation.

Q.81) Consider the following statements with respect to 'Telecom Regulatory Authority of India'

1. TRAI adjudicates any dispute between a licensor and a licensee, between two or more service providers, between a service provider and a group of consumers
2. TRAI conducts auctions of licenses for electromagnetic spectrum
3. It is a regulatory body consisting of a Chairperson and not more than two full-time members

Choose the correct answer using the code given below

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

Q.81) Solution(b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Correct
The TRAI Act was amended in 2000, establishing a Telecom Disputes Settlement and	In India, the Department of Telecommunications (DoT) conducts auctions of licenses	TRAI is a regulatory body set up by the Government of India under section 3 of the Telecom Regulatory

<p>Appellate Tribunal (TDSAT). It was set up to adjudicate any dispute between a licensor and a licensee, between two or more service providers, between a service provider and a group of consumers, and to hear and dispose of appeals against any direction, decision or order of TRAI.</p>	<p>for electromagnetic spectrum. India was among the early adopters of spectrum auctions beginning auctions in 1994.</p>	<p>Authority of India Act, 1997. It is the regulator of the telecommunications sector in India. It consists of a Chairperson and not more than two full-time members and not more than two part-time members.</p>
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Context - TRAI released recommendations on “Regulatory Framework for Promoting Data Economy Through Establishment of Data Centres, Content Delivery Networks, and Interconnect Exchanges in India”

Q.82) With reference to ‘The Greater One-horned Rhinoceros’, consider the following statements

1. It is the largest of the rhino species and classified as vulnerable in the IUCN Red List
2. It ranges throughout the entire stretch of the Indo-Gangetic Plain

Select the correct statement(s)

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

Q.82) Solution(a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
<p>The greater one-horned rhino (or “Indian rhino”) is the largest of the rhino species. It is listed as Vulnerable on the IUCN Red List, as populations are fragmented and restricted to less than 20,000 km² (7,700 sq mi)</p>	<p>Indian rhinos once ranged throughout the entire stretch of the Indo-Gangetic Plain, but excessive hunting and agricultural development reduced its range drastically to 11 sites in northern India and southern Nepal.</p>

Context - A comprehensive analysis titled 'Executive Summary of the Rhino Horn Trafficking as a Form of Transnational Organised Crime (2012-2021): 2022 Global Threat Assessment', was presented at the meeting of the Conference of Parties organised by the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES).

Q.83) India has signed 'Framework Arrangement on Cyber and Cyber-Enabled Critical Technology Cooperation' with which country

- a) Sweden
- b) United States of America
- c) Australia
- d) Norway

Q.83) Solution(c)

Australia-India Framework Arrangement on Cyber and Cyber-Enabled Critical Technologies Cooperation was signed in 2020. Under the Arrangement, Australia and India will work together to promote and preserve an open, free, safe and secure Internet, enhance digital trade, harness critical technology opportunities and address cyber security challenges.

Context - India and Australia recently convened their fifth bilateral Cyber Policy Dialogue in New Delhi.

Q.84) Consider the following statements with respect to 'The Digital Personal Data Protection Bill 2022'

1. The provisions of this Act shall only apply to processing of digital personal data inside the territory of India
2. A Data Principal shall have the right to nominate any other individual to exercise the rights of the Data Principal in case of death/incapacity
3. Data Protection Board of India shall be created under this Act to determine non-compliance and impose penalty under the provisions of this Act

Choose the correct answer using the code given below

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

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

Q.84) Solution(d)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
The provisions of this Act shall also apply to processing of digital personal data outside the territory of India, if such processing is in connection with any profiling of, or activity of offering goods or services to Data Principals within the territory of India.	A Data Principal shall have the right to nominate, in such manner as may be prescribed, any other individual, who shall, in the event of death or incapacity of the Data Principal, exercise the rights of the Data Principal in accordance with the provisions of this Act.	Data Protection Board of India shall be created by the The Central Government a Board to be called the Data Protection Board of India. The functions of the Board is to determine non-compliance with provisions of this Act and impose penalty under the provisions of this Act

Context - MeitY invites feedback on the draft 'Digital Personal Data Protection Bill 2022'**Q.85) Consider the following statements with respect to 'Kabir Das'**

1. His writings influenced Bhakti movement and his verses are found in Guru Granth Sahib
2. He was a contemporary of Saint Namdev and both believed in nirguna worship

Select the correct statement(s)

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

Q.85) Solution(a)**Statement Analysis:**

Statement 1	Statement 2
Correct	Incorrect
Saint Kabir was a 15th-century Indian mystic poet and saint. His writings influenced Hinduism's Bhakti movement, and his verses are found in Sikhism's scripture Guru Granth Sahib, the Satguru Granth Sahib of Saint Garib Das and Kabir Sagar. Kabir suggested that "Truth" is with the person who is on the path of righteousness, considered everything, living and non living, as divine, and who is passively detached from the affairs of the world.	Saint Kabir was a 15 th century poet whereas Saint Namdev was a 14 th century poet. While Saint Kabir believed in Nirguna worship, Saint Namdev's philosophy contains both nirguna and saguna Brahman elements, with monistic themes.

Context - Folk singer Prahlad Tipaniya's music triggers interest in the 15th century mystic poet Kabir Das

Q.86) Consider the following statements about Environmental DNA (eDNA)

1. It is the genetic material obtained directly from environmental samples without any obvious signs of the biological source material.
2. It originates from cellular material shed by organism into their surroundings.
3. eDNA - based molecular methods is used to detect invasive species in aquatic ecosystem.

Choose the incorrect statements:

- a) 1 only
- b) 2 only
- c) None
- d) 2 and 3

Q.86) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> eDNA is defined as "genetic material obtained directly from environmental samples (soil, sediment, water, etc.) without any obvious signs of the biological source material." 	<ul style="list-style-type: none"> It is an efficient, non-invasive and easy-to-standardise sampling approach. eDNA can be obtained from ancient and modern 	<ul style="list-style-type: none"> Coupled with sensitive, cost-efficient and ever-advancing DNA sequencing technology, the technique is increasingly being used for biodiversity monitoring

	<p>environments.</p> <ul style="list-style-type: none"> • It originates from cellular material shed by organisms (via skin, excrement, etc.) into aquatic or terrestrial environments. 	
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Context: The researchers from Centre for Cellular and Molecular Biology (CSIR-CCMB) have developed Environmental DNA (eDNA)-based molecular methods to detect invasive species North African Sharptooth catfish, that has invaded most freshwater ecosystems in India.

Q.87) Consider the following statements about No Money For Terror (NMFT) Conference

1. It is a joint initiative of USA and India, started aftermath of the 9/11 attack.
2. The NMFT Conference 2022 is hosted by India in which the Pakistan based terror outfit Jaish-e-Mohammed was blacklisted.

Choose the correct statements:

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

Q.87) Solution (d)

Statement Analysis

Statement 1	Statement 2
Incorrect	Incorrect
<ul style="list-style-type: none"> • The “No Money for Terror” conference was started in 2018, as an initiative of the French government, to specifically focus on cooperation between countries to choke terror funding. 	<p>NMFT 2022</p> <ul style="list-style-type: none"> • India hosts the 2022 conference. <p>The agenda for the NMFT 2022 includes:</p> <ul style="list-style-type: none"> • Use of virtual assets and crowdfunding platforms by terrorist entities • Use of the dark web by the terror outfits

- The links between terror financing and legitimate economic activities, and payment intermediaries
No terror outfits were blacklisted during the conference.

Context: Recently, third 'No Money for Terror' (NMFT) Ministerial Conference on Counter-Terrorism Financing was held in New Delhi, India.

Q.88) Consider the following statements about Review Petition

1. Under Article 137, the Supreme Court has the power to review its judgments or orders.
2. A review petition must be filed within 90 days of pronouncement of the judgment.
3. The same judges who passed the original verdict also hear the review petition.

Choose the correct statements:

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

Q.88) Solution (a)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
<ul style="list-style-type: none"> • Article 137 of the Indian Constitution deals with the review of judgments or orders by the Supreme Court. It says that, subject to the provisions of any law made by Parliament or any rules made under article 145, the Supreme Court shall have the power to review any judgment pronounced or order made by it. 	<ul style="list-style-type: none"> • A review petition must be filed within 30 days of pronouncement of the judgment. • Except in cases of death penalty, review petitions are heard through circulation by judges in their chambers. 	<ul style="list-style-type: none"> • Lawyers in review petitions usually make their case through written submissions, and not oral arguments. • The same judges who passed the original verdict usually also hear the review petition.

Context: Central government files review petition before Supreme Court against release of Rajiv Gandhi assassination convicts

Q.89) Consider the following statements

1. In a narco test, a drug called sodium pentothal is injected into the body of the accused, which transports them to a hypnotic or sedated state.
2. In India, narco analysis, brain mapping and polygraph tests cannot be conducted on any person without his or her consent.

Choose the incorrect statements:

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

Q.89) Solution (d)**Statement Analysis**

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • In a narco test, a drug called sodium pentothal is injected into the body of the accused, which transports them to a hypnotic or sedated state. • In such a state the accused's imagination is neutralised and is understood as being incapable of lying, and is expected to divulge information that is true. 	<ul style="list-style-type: none"> • The Supreme Court had ruled that narco analysis, brain mapping and polygraph tests cannot be conducted on any person without his or her consent. • The apex court had noted in response to petitions questioning the validity of such tests, are illegal and a violation of personal liberty. • However, statements made during narco analysis test are not admissible in the court, except under certain circumstances when the court thinks that the facts and nature of the case permit it.

Context: The Delhi Police had sought the narco test of Aftab Poonawala, who is accused of murdering his live-in partner Shraddha Walkar.

Q.90) Rezang La pass recently seen in news is between?

- a) Ladakh and Spanggur Lake
- b) Kashmir Valley and Ladakh
- c) Kullu Valley and Spiti Valley
- d) Ladakh and Xinjiang province of China

Q.90) Solution (a)

Option a

Correct



Battle of Rezang La

- The battle was fought between Indian and Chinese troops on the south-eastern ridge of the Chushul Valley of Eastern Ladakh.

Significance of Rezang La

- Rezang La is a mountain pass on the Line of Actual Control between Indian-administered Ladakh and the Chinese-administered Spanggur Lake basin.
- The pass is located on the eastern watershed ridge of the Chushul Valley.
- Rezang La is, therefore, vital for the defence of the crucially important Chushul.
- Any invader reaching there would have had a free run to Leh.
- With Rezang La, India gets a clear view of the Spanggur Gap, China's Moldo Garrison and also of the Spanggur Lake.

Context: India has recently observed the 60th anniversary of Battle of Rezang La.

Q.91) Consider the following statements about Loss and Damages Fund

1. It is an initiative of the Coalition for Disaster Resilient Infrastructure (CDRI)
2. It aims to provide financial assistance to poor nations stricken by climate disaster.
3. The Santiago Network on vulnerable developing countries is associated with this fund.

Choose the incorrect statements:

- a) 1 and 3

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

Q.91) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
<ul style="list-style-type: none"> • Delegates at the U.N.'s climate conference in Sharm el-Sheikh, Egypt (COP27) thrashed out an agreement to establish a 'Loss and Damages' fund. • The COP27 is part of the United Nations Climate Change Conference (UNFCC). 	<ul style="list-style-type: none"> • It aims to provide financial assistance to poor nations stricken by climate disaster. 	<ul style="list-style-type: none"> • The parties also agreed on the institutional arrangements to operationalize the Santiago Network for Loss and Damage. • The network aims to catalyse technical assistance to developing countries that are particularly vulnerable to the adverse effects of climate change.

Context: Delegates at the U.N.'s climate conference in Sharm el-Sheikh, Egypt (COP27) thrashed out an agreement to establish a 'Loss and Damages' fund.

Q.92) Consider the following statements about Stampede liquidation

1. It is the act of multiple market participants wanting to withdraw their deposits at once, in panic leading to a severe correction in the price.
2. It generally occurs post-economic booms, with highly leveraged investments first in line.

Choose the correct statements:

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

Q.92) Solution (c)

Statement Analysis

Statement 1	Statement 2
Correct	Correct

- | | |
|---|--|
| <ul style="list-style-type: none"> Stampede liquidation is the act of multiple market participants wanting to withdraw their deposits at once, or willing to sell a specific asset in panic leading to a severe correction in the price. | <ul style="list-style-type: none"> Stampede liquidation, at a large scale, generally occurs post-economic booms, with highly leveraged investments first in line. |
|---|--|

Context: A crypto fall triggered ‘stampede’ liquidation - the world of cryptocurrencies and decentralised digital finance struggle to stay afloat with one of the reasons being the burgeoning pressure placed upon them through central banks.

Q.93) Consider the following statements about Gandhi-Mandela Award

- It is the award jointly awarded by the Governments of India and South Africa
- The award is given to personalities who have carried forward the legacies of Gandhi and Mandela and made contributions in the fields of Peace.
- The 14th Dalai Lama was conferred the Gandhi Mandela Award 2022.

Choose the correct statements:

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

Q.93) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
<ul style="list-style-type: none"> The award is awarded by Gandhi Mandela Foundation, it is a New Delhi based non-profit organisation, established in 2019. It works under the aegis of Interactive Forum on Indian Economy, a Govt. of India Recognized 80G, 12A Complaint. It is committed to the ideas 	<ul style="list-style-type: none"> The award honours exemplary work and achievements of the Heads of State and Government and other distinguished persons/organizations around the world. These awards will be given to personalities who have made significant contribution in the fields of Peace, Social Welfare, Culture, Environment, Education, Healthcare, Sports and Innovation. 	<ul style="list-style-type: none"> The 14th Dalai Lama was conferred the Gandhi Mandela Award 2022.

of Mahatma Gandhi and Nelson Mandela, and has constituted India's first International Award, The Gandhi Mandela Award.		
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Context - The 14th Dalai Lama was recently conferred the Gandhi Mandela Award 2022 by Himachal Pradesh governor Rajendra Vishwanath Arlekar.

Q.94) 'Network Readiness Index' seen in news is given by

- a) World Economic Forum
- b) International Telecommunication Union
- c) Portulans Institute
- d) Internet Security Alliance

Q.94) Solution(c)

The NRI report is released by Portulans Institute, an independent non-profit, nonpartisan research and educational institute based in Washington DC. It places maps network-based readiness landscape of 131 economies based on their performances in four different pillars: Technology, People, Governance, and Impact covering a total of 58 variables.

Context - India has climbed up six places to 61st rank in the Network Readiness Index 2022 report.

Q.95) Consider the following statements with respect to 'Global Partnership on Artificial Intelligence (GPAI)'

1. It works in collaboration with industry, civil society and academia to promote responsible evolution of AI
2. The secretariat of GPAI is hosted at the G-20 and India is a founding member

Select the correct statement(s)

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

Q.95) Solution(a)**Statement Analysis**

Statement 1	Statement 2
Correct	Incorrect
GPAI works in collaboration with partners and international organisations, leading experts from industry, civil society, governments, and academia to collaborate to promote responsible evolution of AI and guide the responsible development and use of AI, grounded in human rights, inclusion, diversity, innovation, and economic growth.	GPAI is a congregation of 25 member countries, including the US, the UK, EU, Australia, Canada, France, Germany, Italy, Japan, Mexico, New Zealand, Republic of Korea, and Singapore. India had in 2020 joined the group as a founding member. Its Secretariat is hosted at the OECD.

Context - India took over as Council Chair of Global Partnership on AI (GPAI)**Q.96) Consider the following statements with respect to 'Sangeet Natak Akademi'**

1. It is an autonomous body under the Ministry of Culture whose chairman is appointed by the President of India
2. Kutiyattam Kendra, Sattriya Kendra, Chhau Kendra are some of the constituent units of the Akademi
3. The Sangeet Natak Akademi Fellowship is the highest honour conferred by Sangeet Natak Akademi without distinction of nationality, race, caste, religion, creed, or sex

Choose the correct answer using the code given below

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

Q.96) Solution(c)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
Sangeet Natak	Sangeet Natak Akademi now has three	The Sangeet Natak Akademi

<p>Akademi is an autonomous body of the Ministry of Culture, Government of India. The Chairman of the Akademi is appointed by the President of India for a term of five years.</p>	<p>constituent units, two of these being dance-teaching institutions: the Jawaharlal Nehru Manipur Dance Academy (JNMDA) at Imphal, and Kathak Kendra in Delhi. Besides the constituent units, the Akademi presently has five centres: Kutiyattam Kendra, Thiruvananthapuram for preserving and promoting the age-old Sanskrit theatre of Kerala, Kutiyattam. Sattriya Kendra, Guwahati for promoting the Sattriya traditions of Assam. North-East Centre, Guwahati for preserving the traditional and folk performing art traditions of north-eastern India. North-East Documentation Centre, Agartala for festival and field documentation in the North-east. Chhau Kendra, Chandankiyari for promoting the Chhau Dances of eastern India</p>	<p>Fellowship is the highest honour conferred by Sangeet Natak Akademi without distinction of nationality, race, caste, religion, creed, or sex. The criteria restricts any person below the age of 50 to ordinarily be considered for the honour. The recommendations are received from the current fellows along with the members of the General Council of the Akademi.</p>
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Context - Sangeet Natak Akademi of Culture Ministry organised vibrant cultural programmes at India Gate recently

Q.97) 'Koronivia Joint Work' seen in news is used in the context of

- a) Carbon trading
- b) Agriculture
- c) Wetland conservation
- d) Plastic usage

Q.97) Solution(b)

Koronivia Joint Work on Agriculture (KJWA) aims to recognise the unique potential of agriculture in tackling climate change. It was established at the 23rd Conference of the Parties (COP) in Fiji as a new process to advance discussions on agriculture in the United Nations Framework Convention on Climate Change (UNFCCC). The joint work will address six topics related to soils, nutrient use, water, livestock, methods for assessing adaptation, and the socio-economic and food security dimensions of climate change across the agricultural sectors.

Context - India recently strongly objected to discussions under a special UN Framework Convention on Climate Change effort known as the Koronivia Joint Work on Agriculture

Q.98) Consider the following statements with respect to 'Election Commissioner (EC) of India'

1. The EC is appointed by the President of India on the recommendation of a three member body consisting of The Prime Minister, The Leader of the Opposition and the Speaker
2. The Constitution has prescribed that only civil servants of the rank of the Cabinet Secretary or Secretary shall be appointed as members of the Election Commission
3. The Constitution has not debarred the retiring election commissioners from any further appointment by the government

Choose the correct answer using the code given below

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

Q.98) Solution(d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Correct
The power to appoint the CEC and the ECs lies with the President of India under Article 324(2) of the Constitution, which states that "the President shall fix the number of ECs in a manner he sees fit, subject to the provisions of any law made by Parliament". In the absence of any Parliamentary law governing the appointment issue, the ECs are appointed by the government of the day, without pursuing any consultation process.	There are no prescribed qualifications for their appointment, although convention dictates that only senior (serving or retired) civil servants, of the rank of the Cabinet Secretary or Secretary to the Gol or an equivalent rank, will be appointed.	The Constitution has not debarred the retiring election commissioners from any further appointment by the government.

Context - Shri Arun Goel took over as new Election Commissioner

Q.99) With reference to 'National Suicide Prevention Strategy', consider the following statements

1. The strategy is in line with the WHO's South East-Asia Region Strategy for suicide prevention
2. It aims to integrate a mental well-being curriculum in all educational and corporate institutions within the next decade

Select the correct statement(s)

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

Q.99) Solution(a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
The strategy is in line with the WHO's South East-Asia Region Strategy for suicide prevention	The strategy broadly seeks to establish effective surveillance mechanisms for suicide within the next three years. It aims to establish psychiatric outpatient departments that will provide suicide prevention services through the District Mental Health Programme in all districts within the next five years. It also seeks to integrate a mental well-being curriculum in all educational institutions within the next eight years.

Context - The Ministry of Health and Family Welfare recently announced a National Suicide Prevention Strategy.

Q.100) Consider the following statements with respect to the 'Ring of Fire'

1. It is a direct result of plate tectonics and consists of both convergent and divergent plate boundaries
2. Volcanic eruptions and earthquakes in each part of the ring are dependent on eruptions and earthquakes in the other parts of the Ring

Select the correct statement(s)

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

Q.100) Solution(a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
The Ring of Fire is a direct result of plate tectonics:	The Ring of Fire is not a single geological

specifically the movement, collision and destruction of lithospheric plates (e.g. the Pacific Plate) under and around the Pacific Ocean. The Ring of Fire consists of convergent, transform and divergent plate boundaries.

structure. Volcanic eruptions and earthquakes in each part of the Ring of Fire occur independently of eruptions and earthquakes in the other parts of the Ring.

Context: There was an earthquake recently in Indonesia around the Ring of Fire

Q.101) Consider the following statements

1. La Niña sees cooler than average sea surface temperature (SST) in the equatorial Pacific region.
2. El Niño causes the Easterly trade winds change direction to turn into westerlies, bringing warm water from the western Pacific towards the America
3. The phenomena of upwelling where nutrient-rich waters rise towards the surface is increased under El Niño

Choose the correct answer using the code given below

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

Q.101) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
La Niña is the opposite of El Niño. La Niña sees cooler than average sea surface temperature (SST) in the equatorial Pacific region. Trade winds are stronger than usual, pushing warmer water towards Asia.	Normally, easterly trade winds blow from the Americas towards Asia. Due to El Niño, they falter and change direction to turn into westerlies, bringing warm water from the western Pacific towards the Americas.	The phenomena of upwelling, where nutrient-rich waters rise towards the surface, is reduced under El Niño. This in turn reduces phytoplankton. Thus, fish that eat phytoplankton are affected, followed by other organisms higher up the food chain.

Context - A new study, published this week in the journal Nature Communications, finds that climate change is expected to strengthen El Niño and La Niña events by 2030.

Q.102) 'Red Line Campaign' seen in news is related to

- a) Gender equality
- b) Anti-microbial resistance
- c) Drug trafficking
- d) Child abuse

Q.102) Solution(b)

Under the Red Line Campaign, the Government of India urges people not to use medicines marked with a red vertical line, without a doctor's prescription. This campaign is aimed at discouraging unnecessary prescription and over-the-counter sale of antibiotics causing drug resistance for several critical diseases including TB, malaria, dengue, etc.

Context - Union Minister of State for Health and Family Welfare, Dr Bharati Pravin Pawar will participate in the 'Third Global High-Level Ministerial Conference on Antimicrobial Resistance' to be held in Muscat, Oman on 24-25 November, 2022.

Q.103) Consider the following statements with respect to 'MAARG portal'

1. It is a one stop platform to facilitate navigation and issue advisories in and around the Indian Ocean region
2. It is a joint initiative of Ministry of Earth Sciences and Ministry of Ports, Shipping and Waterways

Select the INCORRECT statement(s)

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

Q.103) Solution(c)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Incorrect
MAARG portal, (Mentorship, Advisory, Assistance, Resilience and Growth), is a one stop platform to facilitate mentorship for startups across diverse sectors, functions, stages, geographies, and backgrounds.	The Department for Promotion of Industry and Internal Trade (DPIIT), under the Ministry of Commerce and Industry, has recently launched a call for startup applications for registration on the MAARG portal, the National Mentorship Platform by Startup India.

Context – The portal was launched recently by DPIIT.

Q.104) Consider the following statements with respect to 'Measles'

1. It is a highly contagious viral disease transmitted via droplets from the nose, mouth or throat of infected persons
2. There is no specific antiviral treatment if measles develops but vaccine at preventing the disease is available

Select the correct statement(s)

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

Q.104) Solution(c)

Statement Analysis:

Statement 1	Statement 2
Correct	Correct
Measles is a highly contagious viral disease transmitted via droplets from the nose, mouth or throat of infected persons. It can cause life-threatening complications including encephalitis (an infection that leads to swelling of the brain), severe diarrhoea and	There is no specific antiviral treatment if measles develops. Instead the medications are generally aimed at treating superinfections, maintaining good hydration with adequate fluids, and pain relief. But, the measles vaccine is effective at preventing the disease, is

dehydration, pneumonia, ear infections and permanent vision loss.

exceptionally safe, and is often delivered in combination with other vaccines.

Context - The Union Ministry of Health and Family Welfare has decided to depute three high-level multi-disciplinary 3-member teams to Ranchi (Jharkhand), Ahmedabad (Gujarat) and Malappuram (Kerala) to take stock of the upsurge in cases of measles.

Q.105) With reference to 'Ahom Kingdom', consider the following statements

1. It was founded by Lachit Borphukan in the thirteenth century in Brahmaputra valley
2. The Ahom state depended upon forced labour and those forced to work for the state were called paiks
3. The Ahoms were able to successfully defeat the Mughals In the battle of Saraighat

Choose the correct answer using the code given below

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

Q.105) Solution(d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
The Ahom Kingdom was a late medieval kingdom established in 1228 in the Brahmaputra Valley in Assam. The dynasty was established by Sukaphaa, a Shan prince of Mong Mao (present-day Yunnan, China) who came to Assam after crossing the Patkai mountains.	Ahoms created a new state by suppressing the older political system of the bhuiyans (landlords). The Ahom state depended upon forced labour. Those forced to work for the state were called paiks. Ahom society was divided into clans or khels. A khel often controlled several villages.	In 1615, the Ahom Dynasty engaged in its first significant conflict with the Mughal Empire. The Mughals conquered the Ahom capital of Garhgaon in 1662 but were defeated in later battles. Finally, during the battle of Saraighat in 1671, the Ahoms led by Lachit Borphukan successfully defeated the

Mughals.

Context - The three-day long celebration of the 400th birth anniversary of Ahom General Lachit Barphukan began in New Delhi

Q.106) Consider the following statements with respect to 'Agni 3'

1. It is a nuclear capable ballistic missile and has the capability of carrying warhead weighing as much as 15 tonnes
2. Agni-3 missile is known as world's most accurate strategic ballistic missile of its range class due to its high range of circular error probable (CEP)

Select the correct statement(s)

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

Q.106) Solution(b)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct
Agni series of missiles constitute the backbone of India's nuclear weapons delivery which also includes the Prithvi short range ballistic missiles and fighter aircraft. It has a range of 3,500 km and has the capability of carrying warhead weighing as much as 1.5 tonnes.	Due to its high range of circular error probable (CEP), Agni-3 missile is known as world's most accurate strategic ballistic missile of its range class. The accuracy of the nuclear warhead also provides an opportunity of deploying larger number of nuclear force using less fusion material.

Context - India recently test fired intermediate-range ballistic missile Agni-3 from APJ Abdul Kalam Island, Odisha.

Q.107) Consider the following statements with respect to 'Pradhan Mantri Fasal Bima Yojana'

1. The scheme cover oil seeds, food crops and annual horticultural crops with a uniform premium rate for all seasons
2. It covers losses arising out from pre-sowing to post-sowing period including localized calamities such as attacks by wild animals, war and nuclear risks
3. Yield Estimation System based on Technology (YES-Tech) and Collection of Real Time Observations and Photographs of Crops (CROPIC) are employed under the scheme

Choose the correct answer using the code given below

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

Q.107) Solution(d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Correct
The scheme covers all foodgrain and Oilseeds crops(all Cereals, Millets, Pulses and Oilseeds crops) and annual Commercial / Horticultural crops. The premium differs according to the season. While it is 1.5% for Rabi, it is 2% for Kharif season	The States may consider providing add-on coverage for crop loss due to attack by wild animals wherever the risk is perceived to be substantial and is identifiable. But, losses arising out of war and nuclear risks, malicious damage and other preventable risks shall be excluded.	Recently introduced Weather Information and Network Data Systems (WINDS), Yield Estimation System based on Technology (YES-Tech), Collection of Real Time Observations and Photographs of Crops (CROPIC) are some of the key steps taken under the scheme to bring in more efficiency and transparency.

Context - Union Ministry of Agriculture and Farmers Welfare is open to taking pro-farmer changes in Pradhan Mantri Fasal Bima Yojana (PMFBY) in response to the recent climate crisis and rapid technological advances.

Q.108) Consider the following statements with respect to 'World Wildlife Conference'

1. It is the Conference of Parties of CITES convention where all Parties to CITES have the right to attend and to vote on all decisions
2. CITES is not a legally binding on the Parties and does not take the place of national laws

Select the correct statement(s)

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

Q.108) Solution(a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
At CoP of CITES, also known as the World Wildlife Conference, all 184 Parties to CITES have the right to attend, to put forward proposals for the Conference to consider, and to vote on all decisions. 52 proposals have been put forward so far that would affect the regulations on international trade for: sharks, reptiles, hippos, songbirds, rhinos, 200 tree species, orchids, elephants, turtles and more.	Although CITES is legally binding on the Parties – in other words they have to implement the Convention – it does not take the place of national laws. Rather it provides a framework to be respected by each Party, which has to adopt its own domestic legislation to ensure that CITES is implemented at the national level.

Context - India's conservation efforts towards tortoise and turtles lauded in CITES CoP 19 at Panama

Q.109) Consider the following statements with respect to 'Central Information Commission'

1. The Central Information Commission is a statutory body which acts upon complaints from those individuals who have not been able to submit information requests to a Central Public Information Officer or State Public Information Officer
2. The members of CIC are appointed on the recommendation of a committee consisting of the Prime Minister, Leader of Opposition in the Loksabha and the Union Home Minister
3. The decisions of the Central Information Commission are final and binding

Choose the correct answer using the code given below

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

Q.109) Solution(c)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
The Central Information Commission is a statutory body set up under the Right to Information Act in 2005 under the Government of India to act upon complaints from those individuals who have not been able to submit information requests to a Central Public Information Officer or State Public Information Officer due to either the officer not have been appointed, or because the respective Central Assistant Public Information Officer or State Assistant Public Information Officer refused to receive the application for information under the Right to Information Act	The commission includes one chief information commissioner and not more than ten information commissioners who are appointed by the President of India on the recommendation of a committee consisting of the Prime Minister as Chairperson, the Leader of Opposition in the Lok Sabha and a Union Cabinet Minister to be nominated by the Prime Minister.	The decisions of the Central Information Commission are final and binding under section 19 (7) of the Right to Information Act.

Context – The commission was in news

Q.110) Free Trade Agreements in India are approved by

- a) The Parliament
- b) The Union Cabinet
- c) The President

d) Ministry of Commerce and Industry

Q.110) Solution(b)

The India-Australia Economic Cooperation and Trade Agreement (AI-ECTA) needed ratification by the Australian parliament before its implementation. In India, such pacts are approved by the Union Cabinet

Context - Australian parliament approved free trade agreement with India

Q.111) Consider the following statements with respect to 'Constitution of India'

1. It imparts parliamentary supremacy and was adopted by its people with a declaration in its preamble
2. Article 368 dictates the procedure for constitutional amendments and the constitution has had more than 100 amendments since it was enacted

Select the correct statement(s)

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

Q.111) Solution(b)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct
It imparts constitutional supremacy (not parliamentary supremacy, since it was created by a constituent assembly rather than Parliament) and was adopted by its people with a declaration in its preamble. Parliament cannot override the constitution.	Article 368 dictates the procedure for constitutional amendments. Amendments are additions, variations or repeal of any part of the constitution by Parliament. The constitution has had 105 amendments since it was enacted.

Context – Constitution of India was adopted on 26th November in 1949.

Q.112) 'Kutia Kondh' a tribe seen in news are mostly found in

- a) Jharkhand
- b) Assam
- c) Odisha
- d) Chhattisgarh

Q.112) Solution(c)

The Kutia Kondhs are a particularly vulnerable tribal groups in Kalahandi district, Odisha. They live in Lanjigarh, Thuamul Rampur, Madanpur Rampur and Bhawanipatna blocks. The Kondhs worship nature like many other tribal groups in the country. Members of the community take turns to protect forests and wildlife that surround their houses.

Context – They were recently in news.

Q.113) Consider the following statements with respect to 'Gulf Cooperation Council'

1. It is a political and economic alliance of Middle Eastern countries where all member states are monarchies
2. The Supreme Council is the highest authority of the organization and the presidency rotates periodically among the Member States by voting
3. GCC is currently India's largest trading partner bloc

Choose the correct answer using the code given below

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

Q.113) Solution(d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct

<p>GCC is a political and economic alliance of six Middle Eastern countries—Saudi Arabia, Kuwait, the United Arab Emirates, Qatar, Bahrain, and Oman. All current member states are monarchies, including three constitutional monarchies (Qatar, Kuwait, and Bahrain), two absolute monarchies (Saudi Arabia and Oman), and one federal monarchy (the United Arab Emirates, which is composed of seven member states, each of which is an absolute monarchy with its own emir).</p>	<p>The GCC Supreme Council is composed of the heads of state of the member states. It is the highest decision-making entity of the GCC, setting its vision and goals. Decisions on important issues require unanimous approval, while issues on procedural matters require a majority. Each member state has one vote. The presidency rotates based on the alphabetical order of the names of the member states</p>	<p>GCC is currently India's largest trading partner bloc with bilateral trade in FY 2021-22 valued at over USD 154 billion with exports valued at approximately USD 44 billion and imports of around USD 110 billion (non-oil exports of USD 33.8 Billion and non-oil imports of USD 37.2 Billion).</p>
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Context - India-Gulf Cooperation Council (GCC) decide to pursue resumption of Free Trade Agreement (FTA) Negotiations

Q.114) Consider the following statements with respect to 'Periodic Labour Force Survey (PLFS)'

1. It aims to estimate the key employment and unemployment indicators in the short time interval of three months for the urban areas only
2. A person is considered unemployed if he/she did not work even for one day during the preceding week but was available for work under the Current Weekly Status Approach
3. It was launched by National Statistical Office(NSO) post 2008 recession crisis

Choose the correct answer using the code given below

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

Q.114) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Incorrect
The Periodic Labour Force Survey (PLFS) was designed with two major objectives for measurement of employment and unemployment. The first was to measure the dynamics in labour force participation and employment status in the short time interval of three months for only the urban areas in the Current Weekly Status (CWS). Second one was, for both rural and urban areas, to measure the labour force estimates on key parameters in both usual status (ps+ss) and Current Weekly Status.	In the CWS approach, a person is considered unemployed if he/she did not work even for one hour on any day during the week but sought or was available for work at least for one hour on any day during the period.	Considering the importance of availability of labour force data at more frequent time intervals, National Statistical Office (NSO) launched Periodic Labour Force Survey (PLFS) in April 2017.

Context - India's unemployment rate dips to 7.2% in July-Sept 2022 according to National Statistical Office (NSO)'s Periodic Labour Force Survey (PLFS).

Q.115) Consider the following pairs

Military exercise: Associated armed force

1. Samanvay: Indian Army
2. Garuda Shakti: Indian Air Force
3. Naseem al Bahr: Indian Navy
4. Parvat Prahar: Indian Special Forces

Which of the following pair(s) given above are correctly matched

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

Q.115) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3	Statement 4
Incorrect	Incorrect	Correct	Incorrect
Indian Air Force is conducting the Annual Joint Humanitarian Assistance and Disaster Relief (HADR) Exercise 'Samanvay 2022' from 28 November 2022 to 30 November 2022 at Air Force Station Agra.	It is a joint training exercise between Indian Special Forces and the Indonesian Special Forces. It is held at Sangga Buana Training Area, in The Exercise is the eighth edition of the series of bilateral exercises under this banner and this is a part of military-to-military exchange programs. It aims at enhancing understanding, cooperation and interoperability between the Special Forces of both armies.	The Indian Navy's guided missile stealth frigate, INS Trikand, offshore patrol vessel, INS Sumitra, and Maritime Patrol Aircraft -Dornier, participated in the 13th Edition of the Indian Navy (IN) - Royal Navy of Oman (RNO) bilateral exercise 'Naseem Al Bahr' (Sea Breeze).	This exercise named Parvat Prahar is being conducted by the One Strike Corps of the Indian Army. Parvat Prahar was a 20-day long exercise of the Indian Army.

Context – These military exercises were in news**Q.116) Consider the following statements with respect to 'Gram negative bacteria'**

1. Gram-negative bacteria are enclosed in a protective capsule which helps prevent white blood cells from ingesting the bacteria
2. Gram bacteria are classified by the polarity they exhibit after a chemical process called Gram staining is used on them

Select the INCORRECT statement(s)

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

Q.116) Solution(b)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
Gram-negative bacteria are enclosed in a protective capsule. This capsule helps prevent white blood cells (which fight infection) from ingesting the bacteria. Under the capsule, gram-negative bacteria have an outer membrane that protects them against certain antibiotics, such as penicillin.	Gram-negative bacteria are classified by the color they turn after a chemical process called Gram staining is used on them. Gram-negative bacteria stain red when this process is used. Gram-positive bacteria stain blue when this stain is applied to them.

Context - A multi-centre survey carried out by the ICMR to spot the trend in antibiotic resistance across the country showed *Acinetobacter baumannii*, a gram-negative bacteria known to cause infection in the blood, urinary tract and lungs among others, was resistant to high-end antibiotics.

Q.117) With reference to 'Black corals', consider the following statements

1. They can be found growing both in shallow waters and down to depths of over thousand metres
2. They rely on the sun and photosynthesis for energy and also eat tiny zooplankton that are abundant in deep waters

Select the correct statement(s)

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

Q.117) Solution(a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
Black corals can be found growing both in	Unlike their colourful, shallow-water cousins that rely

shallow waters and down to depths of over 26,000 feet (8,000 metres), and some individual corals can live for over 4,000 years. Many of these corals are branched and look like feathers, fans or bushes, while others are straight like a whip.

on the sun and photosynthesis for energy, black corals are filter feeders and eat tiny zooplankton that are abundant in deep waters. Similar to shallow-water corals that build colourful reefs full of fish, black corals act as important habitats where fish and invertebrates feed and hide from predators in what is otherwise a mostly barren sea floor.

Context - Scientists discover new species of black corals near the Great Barrier Reef

Q.118) 'Ikshak' inducted by the Indian Navy recently is a

- a) Submarine-launched ballistic missile
- b) Anti-submarine torpedo
- c) Survey vessel
- d) Amphibious transport dock

Q.118) Solution(c)

'Ikshak', the third of the four Survey Vessels (Large) (SVL) Project, being built by GRSE/L&T for Indian Navy was launched on 26 Nov 22 at Kattupalli, Chennai. SVL ships will replace the existing Sandhayak Class survey ships with new generation hydrographic equipment to collect oceanographic data. The Survey Vessel (Large) ships are 110 m long, 16 m wide with deep displacement of 3400 tons and a complement of 231 personnel.

Context - Indian Navy launched 'Ikshak', the third of the four survey vessels (Large) project at Kattupalli in Tamil Nadu

Q.119) Consider the following statements with respect to 'Earth Observation Satellite-6 (EOS-6)'

1. The Earth observing mission was placed in the geosynchronous orbit by PSLV (Polar Satellite Launch Vehicle)
2. It is expected to provide improved accuracy in daily monitoring of phytoplankton, ocean carbon uptake, harmful algal bloom alerts, and climate studies
3. The satellite will have the capability to make concurrent measurements of Ocean Colour, Sea surface and underwater temperatures and Sea Surface Winds

Choose the correct answer using the code given below

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

Q.119) Solution(b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect
The third generation Indian satellite for monitoring the oceans, formally named as Earth Observation Satellite-6 (EOS-6) was launched aboard the proven launch vehicle PSLV (Polar Satellite Launch Vehicle) on its 56th flight (24th flight of the PSLV-XL version). Today's launch, designed as PSLV-C54, also accommodated other small satellites along with Oceansat-3. The Oceansat-3 was placed in the polar orbit at the height of about 740 kilometers above sea level.	The OCM-3 with high signal-to-noise ratio is expected to provide improved accuracy in daily monitoring of phytoplankton having wide range of operational and research applications including fishery resource management, ocean carbon uptake, harmful algal bloom alerts, and climate studies.	The satellite will have the capability to make concurrent measurements of Ocean Colour, Sea Surface Temperature and Sea Surface Winds, and is expected to provide a great boost to the ocean observing capabilities of the global scientific and operational communities in addressing the Ocean Decade objectives and challenges. It cannot provide underwater sea temperature

Context - The third generation Indian satellite for monitoring the oceans, formally named as Earth Observation Satellite-6 (EOS-6) was launched today by the Indian Space Research Organization (ISRO) in partnership with Ministry of Earth Sciences

Q.120) Consider the following statements with respect to 'United Nations Country Team (UNCT)'

1. The United Nations Country Team (UNCT) exists in all the member countries of the United Nations
2. The UNCT is led by the UN Resident Coordinator, who is the representative of the UN Secretary-General at UN regional groups

3. The UNCT includes all the UN entities working on sustainable development, emergency, recovery and transition in programme countries

Choose the correct answer using the code given below

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

Q.120) Solution(d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Correct
The United Nations Country Team (UNCT) exists in 132 countries, covering all of the 162 countries where there are United Nations programmes.	The UNCT is led by the UN Resident Coordinator, who is the representative of the UN Secretary-General in a given country. The UN Resident Coordinator (RC) is the highest-ranking representative of the UN Development System at the country level. RCs lead UN Country Teams and coordinate UN support to countries in implementing the 2030 Agenda.	The UNCT includes all the UN entities working on sustainable development, emergency, recovery and transition in programme countries. The UNCT ensures interagency coordination and decision-making at the country level.

Context - The Union Minister of Environment Forest and Climate Change Shri Bhupender Yadav addressed the special United Nations Country Team (UNCT) on the key themes and takeaways from CoP 27 at UN House, today.

Q.121) Consider the following statements with respect to 'Re-Hab Project'

- 1. The project aims to rehabilitate workers in textiles industry affected by mechanization by upskilling them
- 2. The project is an initiative of Khadi and Village Industries Commission

Select the correct statement(s)

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

Q.121) Solution(b)**Statement Analysis:**

Statement 1	Statement 2
Incorrect	Correct
Project RE-HAB (Reducing Human Attacks using Honey Bees) is a sub-mission of KVIC's National Honey Mission. Under this project fencing of bee boxes is installed in such areas from where elephants move towards the human settlements and farmers' agriculture.	It is an initiative under Khadi & Village Industries Commission (KVIC). It is running this project in 7 states of the country, namely in Karnataka, Maharashtra, West Bengal, Assam and Orissa.

Context - KVIC Chairman inaugurates the ambitious Re-Hab Project in Nainital**Q.122) With reference to 'Shilp Guru Awards', consider the following statements**

1. The Shilp Guru Awards are given to legendary master craftsmen for the role played by them in the continuance of crafts as a vital part of traditional heritage
2. The main crafts for which the Awards are mostly given are Metal Engraving, Hand Embroidery, Pottery and stone ware
3. The awards were instituted by the Ministry of Culture as part of Azadi ka Amrit Mahotsav

Choose the correct answer using the code given below

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

Q.122) Solution(a)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Incorrect
The Shilp Guru Awards are given to legendary master craftsmen in recognition of excellent craftsmanship, product excellence and the role played by them as gurus in the continuance of crafts to other trainee artisans as a vital part of traditional heritage.	Any master craftsman residing in India who is either a National Awardee or a State Awardee of exceptional standing or master craftsman of extraordinary skills and having immense contribution to handicrafts sector and who is not below the age of 50 years with 20 years of experience as on 31st December of previous year in the field is eligible for the Shilp Guru Award. The National Awards and not Shilp Guru Awards are being awarded since 1965 for outstanding craftsmanship in different craft categories. The main crafts for which the Awards have been given are Metal Engraving, Chikan Hand Embroidery, Khurja Blue Pottery, Mata Ni Pachedi Kalamkari, Bandhani, Tie & Dye, Hand Block Bagh Print, Warli Art, Stone Dust Painting, Sozni Hand Embroidery, Terracotta, Tanjore Painting, Sholapith, Kantha Hand Embroidery, Palm leaf Engraving, Brass wire inlay on wood, Wood Tarkashi, Madhubani Painting, Gold Leaf Painting, straw craft etc.	The Awards were started in 2002, to celebrate the Golden Jubilee of the resurgence of Handicrafts in India. The Award consists of a gold coin, Rs.2.00 lakhs prize money, a Tamrapatra, a shawl and a certificate.

Context - Shilp Guru and National Awards conferred to master craftsmen

Q.123) Consider the following statements with respect to 'The Global Snow Leopard Ecosystem Protection Program (GSLEP)'

1. It is a first-of-its-kind intergovernmental alliance for the conservation of the snow leopard and its unique ecosystem
2. It is led by the environment ministers of countries in Asia that form the home range of the snow leopard

Select the correct statement(s)

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

Q.123) Solution(c)

Statement Analysis:

Statement 1	Statement 2
Correct	Correct
The GSLEP is a first-of-its-kind intergovernmental alliance for the conservation of the snow leopard and its unique ecosystem. It involves all snow leopard range countries, non-governmental organizations, multi-lateral institutions, scientists and local communities	It is led by the environment ministers of 12 countries in Asia that form the home range of the snow leopard. These are Afghanistan, Bhutan, China, India, Kazakhstan, Kyrgyzstan, Mongolia, Nepal, Pakistan, Russia, Tajikistan and Uzbekistan. The total range spans two million square kilometres. The GSLEP Program's secretariat is based in Bishkek, and is hosted by the Ministry of Natural Resources, Ecology and Technical Supervision of the Kyrgyz Republic.

Context - Indian scientists received international award on behalf of snow leopard conservation alliance recently

Q.124) 'Fujiwhara Effect' seen in news is used in the context of

- a) Polar amplification

- b) Tectonic subduction
- c) Submarine earthquakes
- d) Tropical storms

Q.124) Solution(d)

The Fujiwhara Effect is any interaction between tropical storms formed around the same time in the same ocean region with their centres or eyes at a distance of less than 1,400 km, with intensity that could vary between a depression (wind speed under 63 km per hour) and a super typhoon (wind speed over 209 km per hour). The interaction could lead to changes in the track and intensity of either or both storms systems. In rare cases, the two systems could merge, especially when they are of similar size and intensity, to form a bigger storm.

Context - Typhoon Hinnamnor demonstrated a textbook example of a phenomenon known as the Fujiwhara Effect.

Q.125) Consider the following statements

1. Article 215 of the Indian Constitution provides for the transfer of HC judges including the Chief Justice
2. The proposal for transferring a High Court judge including a Chief Justice should be initiated by the CJI and the consent of the judge is not required
3. The Union cabinet would submit a recommendation to the President as to the transfer of the Judge concerned once the proposal is referred to the Government

Choose the correct answer using the code given below

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

Q.125) Solution(b)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect

Article 222 of the Constitution makes provision for the transfer of a Judge (including Chief Justice) from one High Court to any other High Court.	The initiation of the proposal for the transfer of a Judge should be made by the Chief Justice of India (CJI) and the consent of the judge is not required.	The proposal once referred to the Government, the Union Minister of Law, Justice and Company Affairs would submit a recommendation to the Prime Minister who will then advise the President as to the transfer of the Judge concerned.
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Context – There was a criticism about the manner of the transfer of High Court Judges

Q.126) Consider the following statements with respect to 'Alliance of Small Island States (AOSIS)'

1. It is an intergovernmental organization of low-lying coastal and small island countries
2. The members are grouped into three geographic regions namely the Caribbean; the Pacific; and Africa, Indian Ocean, Mediterranean and South China Sea (AIMS)

Select the correct statement(s)

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

Q.126) Solution(a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
Alliance of Small Island States (AOSIS) is an intergovernmental organization of low-lying coastal and small island countries. AOSIS was established in 1990, ahead of the Second World Climate Conference. The main purpose of the alliance is to consolidate the voices of Small Island Developing States (SIDS) to	AOSIS has a heterogeneous membership. Member states are spread across many global regions. AOSIS' focus is SIDS, however its membership also includes low-lying coastal countries, for example Belize and Guyana, and larger islands, for example Papua New Guinea. As well as geographical differences, the

address global warming.

member nations also vary economically. The members of SIDS are grouped into three geographic regions namely the Caribbean; the Pacific; and Africa, Indian Ocean, Mediterranean and South China Sea (AIMS)

Context – The organization was in news.

Q.127) Consider the following statements with respect to ‘Special Marriage Act of 1954’

1. The Act lays down the procedure for both solemnization and registration of marriage where either of the partner or both are of any religion other than Hinduism
2. It requires couples getting married under it to give notice to the Marriage Officer 15 days before the date of marriage
3. This Act is applicable to the entire territory of India and extends to intending spouses who are both Indian nationals living abroad

Choose the correct answer using the code given below

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

Q.127) Solution(b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Correct
The Act applies to any person, irrespective of religion. Hindus, Muslims, Buddhists, Sikhs, Christians, Parsis, or Jews can also perform marriage under the Special Marriage Act, 1954.	As per Section 5 of the Act Couples have to serve a notice with the relevant documents to the Marriage Officer 30 days before the intended date of marriage.	The Special Marriage Act, 1954 is an Act of the Parliament of India with provision for civil marriage (or "registered marriage") for people of India and all Indian nationals in foreign countries,

		irrelevant of the religion or faith followed by either party.
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Context - Supreme Court issued a notice to Centre on plea to recognise same-sex marriage under this Act

Q.128) With reference to 'State Finance Commission', consider the following statements

1. The State Finance Commission (SFC) is a Constitutional body formed under the 73rd and 74th Constitutional Amendment Act, 1992
2. The governor of a state is required to constitute a Finance Commission every five years
3. The Commission recommends Grants-in-aid to Panchayati Raj Institutions from the consolidated fund of a state

Choose the correct answer using the code given below

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

Q.128) Solution(d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
The State Finance Commission (SFC) is a Constitutional body, formed under the 73rd and 74th Constitutional Amendment Act, 1992.	The Governor of a State appoints a Finance Commission, every five years in accordance with Article 243-I of the Indian Constitution. Every recommendation of the State Finance Commission and subsequent action taken by the State Government must be brought before the State	The Commission recommends the following: 1) Taxes, levies and fees levied or appropriated by Panchayats themselves. 2) Grants-in-aid to Panchayati Raj Institutions from the consolidated fund of a state. 3) Ways to improve the financial position of the Panchayati Raj Institutions. 4) Measures for the overall

	legislature by the Governor.	improvement of Panchayat's finances.
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Context - Two-days National Conclave of State Finance Commissions (SFC) began at NIRD&PR, Hyderabad

Q.129) Consider the following statements with respect to 'iNCOVACC – intranasal COVID vaccine'

1. It is a recombinant replication deficient rhinovirus vectored vaccine with a pre-fusion stabilised SARS-CoV-2 spike protein.
2. It was developed by Serum Institute of India in partnership with Washington University

Select the correct statement(s)

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

Q.129) Solution(d)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Incorrect
iNCOVACC is a recombinant replication deficient adenovirus vectored vaccine with a pre-fusion stabilised SARS-CoV-2 spike protein. It is the world's first intranasal vaccine to receive both primary series and heterologous booster approval.	It is developed by Bharat Biotech International Limited. It was developed in partnership with Washington University, St Louis, which had designed and developed the recombinant adenoviral vectored construct and evaluated in pre-clinical studies for efficacy.

Context – Bharat Biotech's iNCOVACC has recently received approval for Covid booster doses from Drugs Controller General of India (DCGI).

Q.130) It is the largest wetland in northern India. The wetland was formed by constructing the headworks across the Sutlej river. It is a man-made, riverine, lacustrine wetland spread into the three districts. The wetland is

- a) Harike
- b) Kanjli
- c) Nangal
- d) Renuka

Q.130) Solution(a)

Harike wetland, spread over 86 square kilometers in Tarn Taran, Ferozepur, and Kapurthala districts, serves as a home to rare species of migratory water birds during the winter season. Harike Wetland also known as "Hari-ke-Pattan", with the Harike Lake in the deeper part of it, is the largest wetland in northern India. The wetland and the lake were formed by constructing the headworks across the Sutlej river in 1953. This man-made, riverine, lacustrine wetland spreads into the three districts of Tarn Taran Sahib, Ferozepur and Kapurthala in Punjab and covers an area of 4100 ha.

Context - Migratory birds from different countries have started arriving at Punjab's Harike wetland.