

# GES REPORTER

September 2022  
Monthly Current Affairs MCQs  
Compilation PDF

By

Saurabh Pandey

Code: SPLIVE

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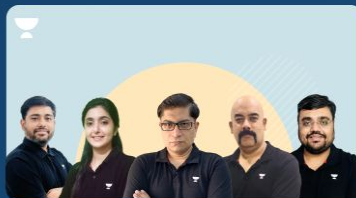
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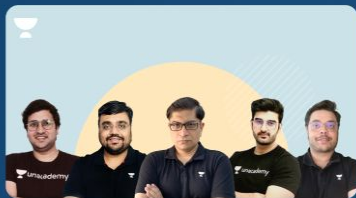
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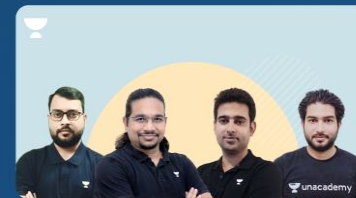
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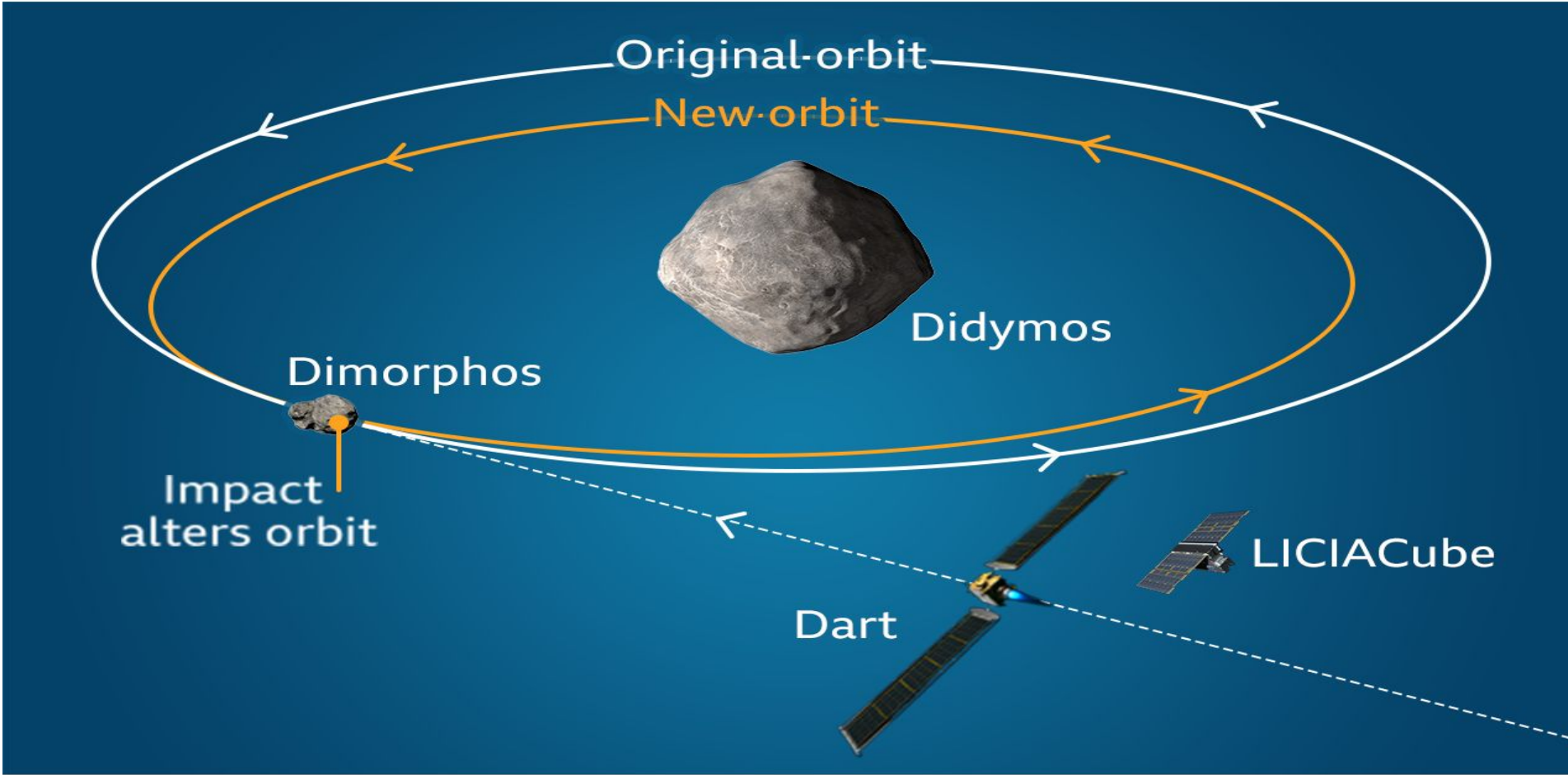
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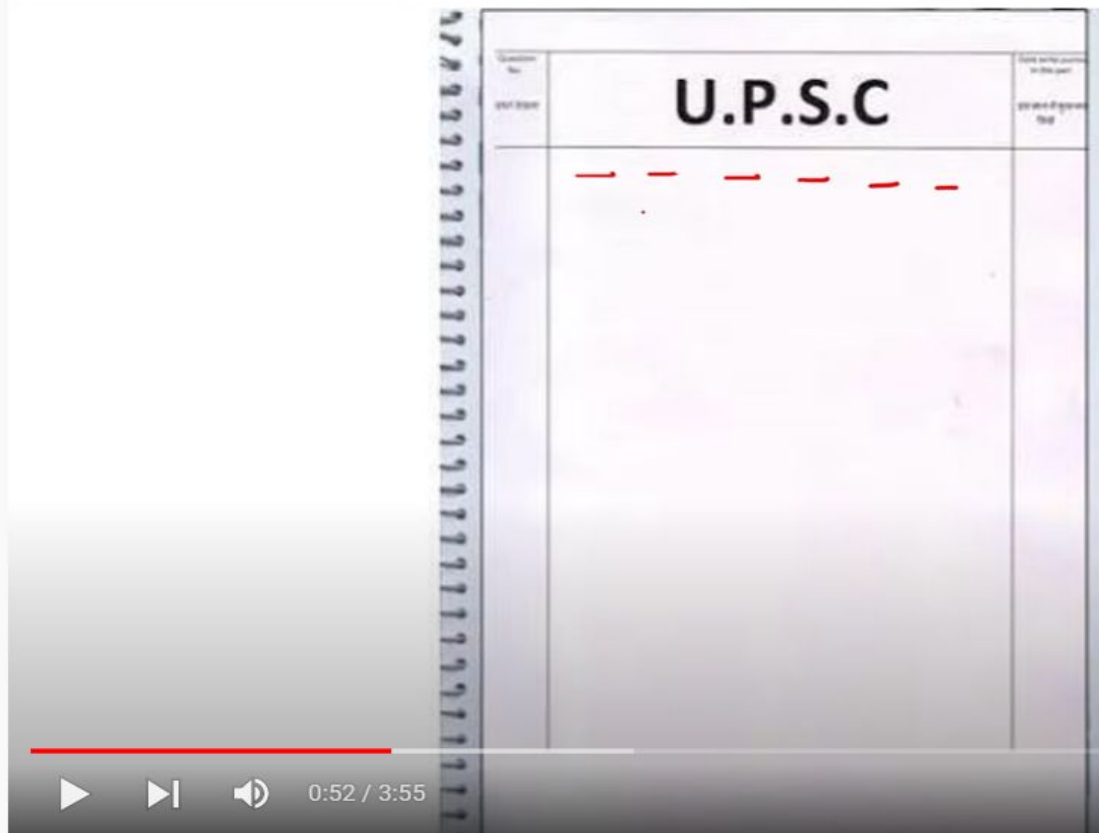


# Nasa spacecraft crashes into asteroid's moon



Source: Nasa, Johns Hopkins Applied Physics Laboratory





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# QUIZ TIME



Que-With reference to National Centre for Good Governance (NCGG), consider the following statements

- 1- The National Centre for Good Governance was set up in 2014 by the Government of India as an apex institution in the country.
- 2- It focuses on good governance, policy reforms, training and capacity building, and to also work as a think tank.
- 3- It has imparted training to civil servants of 15 countries.

Which of the following given above is/are correct?

ANSWER IN THE COMMENTS

a) 1 only

b) 1 and 3 only

c) 1, 2 and 3

d) 2 and 3 only

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# QUIZ TIME



Que-Globally, there is no single EV standard, Japan, China, countries in Europe and North America have safety standards that promote different norms in four key areas:

- 1- Charging connectors.
- 2- Charging topology.
- 3- Charging-related communications.

Which of the following given above is/are correct?

ANSWER IN THE COMMENTS

a) 1 and 2 only

b) 1 only

c) 1, 2 and 3

d) 2 and 3 only

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**Que-1 With reference to Scheme for Economic Empowerment of Denotified/Nomadic/SemiNomadic (SEED) communities, consider the following statements**

1- Aim to provide free competitive exam coaching to these students, to provide health insurance to families, to uplift clusters of these communities through livelihood initiatives, and to provide financial assistance for housing.

2- The Union Social Justice Ministry has been allocated ₹20000 crore for this scheme - to be spent over five years from FY 2021-2022 to FY 2025-2026.

3- The Idate Commission in its report had first recommended that a separate schedule be created for these communities so that they can avail benefits meant for them.

Which of the following given above is/are correct

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

**Que-2 The Indian Air Force (IAF) is set to formally raise its first unit of indigenous Light Combat Helicopters (LCHs) in Jodhpur in the first week of October coinciding with Air Force Day on October 8. Consider the following statements about this**

1- The LCH is the first dedicated attack helicopter of the Army, which otherwise

operates 75 Rudra helicopters, the weaponised variant of the indigenous Advanced Light Helicopter.

2- It will start receiving Apache attack helicopters from early 2024 onwards, six of which have been contracted under an estimated \$800 million deal from the U.S. in February 2020.

3- It is also in talks with Boeing for the procurement of 11 additional Apache helicopters.

Which of the following given above is/are correct

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

**Que-3 5G networks are deployed mainly on two modes: standalone and non-standalone. Consider the following statements about this**

1- In the standalone mode, the 5G network operates with dedicated equipment, and runs parallel to the existing 4G network.

2- In the non-standalone mode, the 5G network is supported by the 4G core infrastructure.

3- The standalone networks are built on existing infrastructure, the initial cost and the time taken to roll out services through this track is significantly less than standalone networks.

Which of the following given above is/are correct

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

**Que-4 Consider the following statements about 4G vs 5G mobile generation**

1- Internet speeds on 5G could touch 10 Gbps, compared to the 100 Mbps peak of 4G.

2- Latency under 4G is under 1 ms whereas on 5G it is expected to be between 10-100 ms (millisecond).

Which of the following given above is/are correct

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

**Que-5 What is the UN High Seas Treaty?**

1- Also referred to as the 'Washington Agreement for the Ocean', the treaty to deal with Biodiversity Beyond National Jurisdiction has been under discussion for several years.

2- The proposed treaty concerns the ocean existing beyond the Exclusive Economic Zones that lie from the coast of a country to about 200 nautical miles or 370 km into the sea, till where it has special rights for exploration.

3- The treaty was to be negotiated under the United Nations Convention on Laws of the Sea (UNCLOS) of 1982 which governs the rights of countries regarding marine resources.

Which of the following given above is/are correct

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

**Que-6 With reference to Special Marriage Act (SMA), 1954, consider the following statements**

1- Section 5 of the SMA requires couples getting married under it to give a notice to the Marriage Officer 30 days before the date of marriage.

2- Section 7 provides the process for making an objection such as if either party has a living spouse, is incapable of giving consent due to "unsoundness of mind" or is suffering from mental disorder resulting in the person being unfit for marriage or procreation.

3- Section 8 specifies the inquiry procedure to be followed after an objection has been submitted.

Which of the following given above is/are correct

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

**Que-7 Which Police has become the first police force in the country to make collection of forensic evidence mandatory in crimes punishable by more than six years.**

- a) Chandigarh
- b) Delhi
- c) Mumbai
- d) Kerala

**Que-8 Consider the following statements about Lumpi-ProVac, recently in News**

- 1- India's indigenous vaccine to protect livestock from Lumpy Skin disease.
- 2- Lumpi-ProVac has been developed by the Serum Institute of India.

Which of the following given above is/are correct

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

## ANSWER

1- (b)

- The Union Social Justice Ministry has been allocated ₹200 crore for this scheme - to be spent over five years from FY 2021-2022 to FY 2025-2026.

2- (c)

- The LCH is designed and developed by Hindustan Aeronautics Limited (HAL).
- The LCH Limited Series Production (LSP) is an indigenously designed, developed and manufactured state-of-the-art modern combat helicopter containing approximately 45% indigenous content by value which will progressively increase to more than 55% for Series Production Version.

3- (a)

- The non-standalone networks are built on existing infrastructure, the initial cost and the time taken to roll out services through this track is significantly less than standalone networks.

**What are the key differentiators between standalone and non-standalone 5G networks?**

- The standalone mode provides access to full 5G capabilities and new

network functionalities such as slicing that provides greater flexibility to operators to efficiently use their spectrum holdings.

- Non-standalone networks are generally considered to be a stepping stone, and global precedent suggests operators that have launched non-standalone 5G networks eventually transition to standalone networks. The non-standalone mode, however, lets operators maximise the utilisation of their existing network infrastructure with relatively lower investment.
- The biggest difference in the two architectures is the compatibility with existing device ecosystems. Most smartphones today have capability to connect to non-standalone 5G networks — which are essentially 5G airwaves transmitted through 4G networks — and will require software updates by their OEMs to be able to connect to standalone networks.

4- (a)

- 5G could have benefits for consumers owing to the superior Internet speed and low latency it promises over 4G. At its peak, Internet speeds on 5G could touch 10 Gbps, compared to the 100 Mbps peak of 4G. Similarly, latency under 4G is between 10-100 ms (millisecond) whereas on 5G it is

expected to be under 1 ms. Latency is the time it takes for a device to send packets of data and get a response. Shorter the latency, quicker the response.

5- (d)

- Also referred to as the 'Paris Agreement for the Ocean', the treaty to deal with Biodiversity Beyond National Jurisdiction has been under discussion for several years.
- The proposed treaty concerns the ocean existing beyond the Exclusive Economic Zones that lie from the coast of a country to about 200 nautical miles or 370 km into the sea, till where it has special rights for exploration. Waters beyond that are known as open seas or high seas.
- The treaty was to be negotiated under the United Nations Convention on Laws of the Sea (UNCLOS) of 1982 which governs the rights of countries regarding marine resources. As there is no treaty for conserving the health of vast swathes of the earth's oceans, a UN resolution in 2017 had decided to rectify this while setting 2022 as the deadline.
- The pandemic resulted in many delays, and later, a High Ambition Coalition, which now has more than 100 countries including India, the US,



and the UK, came about and put the focus on '30x30' goals – protecting 30% of the ocean by 2030. After the latest deadlock, talks will only resume next year, unless a special session is called.

- Some aspects of negotiations included establishing marine protected areas to put limits on certain activities, environmental impact assessments or clearances for sustainability of works, financial support to countries and sharing other scientific knowledge. The International Union for Conservation of Nature has said binding agreements are needed for this treaty to be effective.

6- (c)

- Section 5 of the SMA requires couples getting married under it to give a notice to the Marriage Officer 30 days before the date of marriage. The writ seeks striking down of provisions that follow in Section 6 to Section 10.
- Section 6 requires such a notice to be then entered into the Marriage Notice Book maintained by the Marriage Officer, which can be inspected by “any person desirous of inspecting the same”. These notices have to be also affixed at a “conspicuous place” in the office of the Marriage Officer so that anyone can raise an objection to the marriage.

- Section 7 provides the process for making an objection such as if either party has a living spouse, is incapable of giving consent due to “unsoundness of mind” or is suffering from mental disorder resulting in the person being unfit for marriage or procreation.

- Section 8 specifies the inquiry procedure to be followed after an objection has been submitted.

7- (b)

8- (a)

- Lumpi-ProVac has been developed by the National Research Centre on Equines, Hisar (Haryana) in collaboration with the Indian Veterinary Research Institute, Izatnagar (Bareilly).

- Lumpy skin disease is an infectious viral disease of cattle, which often occurs in epizootic form. The disease is characterized by the eruption of nodules in the skin, which may cover the whole of the animal's body.

- Lumpy skin disease, caused by the lumpy skin disease virus, leads to substantial economic loss and requires technically sound and coordinated efforts for its prevention and control. It is also on the OIE (World Organisation for Animal

Health) list of notifiable diseases. The disease was introduced into Bangladesh, China, and India, beginning in July 2019. In 2020, the disease then spread to other parts of China and India as well as Nepal and Bhutan.

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**Que-1 With reference to Narcotic Drugs and Psychotropic Substances (NDPS) Act, consider the following statements**

- 1- Enacted in 1985, the NDPS Act is the main legislation that deals with drugs and their trafficking.
- 2- The NDPS Act defines cannabis (hemp) as a narcotic drug based on the parts of the plant that come under its purview.
- 3- As a “special provision”, the Act states that the government “may allow cultivation of any cannabis plant for industrial purposes only of obtaining fibre or seed or for horticultural purposes”.

Which of the following given above is/are correct

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

**Que-2 Consider the following statements about Soli Sorabjee committee**

- 1- The Government of India established a committee under the chairmanship of former attorney general Soli Sorabjee to frame a Model Police Act.
- 2- The committee submitted its recommendations on October 30, 2006, “to enable the police to operate as an efficient, effective, people-friendly, and responsive agency.”

- 3- The Government of India had introduced many recommendations of the Sorabjee Committee.

Which of the following given above is/are correct

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

**Que-3 With reference to “Cloud seeding”, consider the following statements**

- 1- Cloud seeding is a weather modification technique aimed at enhancing precipitation from clouds.
- 2- Glaciogenic cloud seeding aims at speeding up droplet coalescence in liquid clouds, leading to production of large droplets that start to precipitate.
- 3- Hygroscopic cloud seeding trigger ice production in supercooled clouds, leading to precipitation.

Which of the following given above is/are correct

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

**Que-4 What are anti-radiation pills?**

1- Sodium iodide (KI) tablets, or anti-radiation pills, are known to provide some protection in cases of radiation exposure.

2- They contain non-radioactive iodine and can help block absorption, and subsequent concentration, of radioactive iodine in the thyroid gland.

3- This contains so much non-radioactive iodine, the thyroid becomes full and cannot absorb any more iodine – either stable or radioactive – for the next 24 hours

Which of the following given above is/are correct

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

**Que-5 Consider the following statements about International Whale Shark Day**

1- The whale shark (*Rhincodon typus*) is the largest fish on Earth and a keystone species in marine ecosystems.

2- International Whale Shark Day is celebrated on September 1.

3- The fish is listed as a Schedule I animal under the Wild Life (Protection) Act, 1972.

Which of the following given above is/are correct

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

- c) 1, 2 and 3      d) 3 only

**Que-6 With reference to methamphetamine — meth for short, consider the following statements**

1- It is a powerful, highly addictive stimulant that affects the central nervous system.

2- It is used to treat attention-deficit hyperactivity disorder (ADHD) and narcolepsy, a sleep disorder.

3- Meth lowers the amount of dopamine in the brain.

Which of the following given above is/are correct

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

**Que-7 Consider the following statements about Peer pressure**

1- It is an influence by which you do something because you want to feel valued or accepted by your friends or society.

2- It can be something as small as being forced to do well in studies because the child next door is performing better than you in academics during your school days, or something big that forces you to choose a career or even a life partner.

Which of the following given above is/are correct



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

**ANSWER****Que-8 Consider the following statements about Artemis I mission**

1- Artemis I mission will carry two mannequins designed to study the effects of radiation on women's bodies so that NASA can learn how to protect female astronauts better.

2- Artemis was a major deity in ancient Greece, worshiped at least as early as the beginning of the first millennium B.C., or even earlier.

3- Artemis I will send a rocket without a crew on a monthlong journey around the Moon.

Which of the following given above is/are correct

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

1- (c)

- Enacted in 1985, the NDPS Act is the main legislation that deals with drugs and their trafficking. Various provisions of the Act punish production, manufacture, sale, possession, consumption, purchase, transport, and use of banned drugs, except for medical and scientific purposes.
- The NDPS Act defines cannabis (hemp) as a narcotic drug based on the parts of the plant that come under its purview. The Act lists these parts as:
  - (a) Charas: "The separated resin, in whatever form, whether crude or purified, obtained from the cannabis plant and also includes concentrated preparation and resin known as hashish oil or liquid hashish."
  - (b) Ganja: "The flowering or fruiting tops of the cannabis plant (excluding the seeds and leaves when not accompanied by the tops), by whatever name they be known or designated."
  - (c) "Any mixture, with or without any neutral material, of any of the above forms of cannabis or any drink prepared therefrom."

- The Act, in its definition, excludes seeds and leaves “when not accompanied by the tops”. Bhang, which is made with the leaves of the plant, is not mentioned in the NDPS Act.
- Section 20 of the NDPS Act lays out the punishment for the production, manufacture, sale, purchase, import and inter-state export of cannabis, as defined in the Act. The prescribed punishment is based on the amount of drugs seized.

2- (a)

- The Government of India promised in Parliament that a Model Police Act based on the recommendations of the Sorabjee Committee would be introduced in the near future. This has not yet occurred.

3- (b)

- There are two principal cloud seeding techniques. Hygroscopic cloud seeding aims at speeding up droplet coalescence in liquid clouds, leading to production of large droplets that start to precipitate. Cloud seeding material consists usually of large salt particles dispersed by some means to the cloud base.
- The idea of the other technique, glaciogenic cloud seeding, is to trigger

ice production in supercooled clouds, leading to precipitation. Glaciogenic cloud seeding is usually done by dispersing efficient ice nuclei, such as silver iodide particles or dry ice (solid carbon dioxide) into the cloud, causing heterogeneous ice nucleation. Another possibility is to use liquid carbon dioxide which cools the cloud sufficiently so that the supercooled water droplets freeze homogeneously. Glaciogenic cloud seeding is usually applied to convective clouds, or winter orographic clouds. The largest body of scientific research on cloud seeding has been done on AgI seeding on these two cloud types.

4- (d)

- Potassium iodide (KI) tablets, or anti-radiation pills, are known to provide some protection in cases of radiation exposure.

#### How do these pills work?

- After a radiation leak, radioactive iodine floats through the air and then contaminates food, water and soil.
- While radioactive iodine deposited during external exposure can be removed using warm water and soap, according to the World Health Organisation, the bigger risk is inhaling it.

- “Internal exposure, or irradiation, occurs when radioactive iodine enters the body and accumulates in the thyroid gland,” says the WHO.
  - The thyroid gland, which uses iodine to produce hormones to regulate the body’s metabolism, has no way of telling radioactive from non-radioactive iodine.
  - Potassium iodide (KI) tablets rely on this to achieve ‘thyroid blocking’. KI pills taken a few hours before or soon after radiation exposure ensure that non-radioactive iodine in the medicine is absorbed quickly to make the thyroid “full”.
  - “Because KI contains so much non-radioactive iodine, the thyroid becomes full and cannot absorb any more iodine – either stable or radioactive – for the next 24 hours,” says the US Centre for Disease Control and Prevention.
  - But KI pills are preventive only and cannot reverse any damage done by radiation to the thyroid gland. Once thyroid gland absorbs radioactive iodine, those exposed are at a high risk of developing thyroid cancer.
- 5- (b)
- International Whale Shark Day is celebrated on August 30.
- It can grow to a length of approximately 18 metres and weigh as much as 21 tonnes.
  - Although distributed widely across tropical and warm temperate seas, limited information is available on the population trends of this species, especially along the Indian coastline.
  - The whale shark is distributed all along the Indian coast. However, the largest whale shark aggregation is along the Gujarat coast. The fish is listed as a Schedule I animal under the Wild Life (Protection) Act, 1972.
  - The International Union for Conservation of Nature (IUCN) has noted that whale shark populations are on the decline and its global status is notified as ‘Endangered’.
  - According to IUCN, the main threat to these plankton feeders is accidental entanglement in fishing nets. This can result in mortality.
  - The only way to curb such mortality is to ensure the release of the entangled whale sharks from the fishing net without any delay.
- 6- (a)
- Crystal methamphetamine or crystal meth is a form of the drug that looks like glass fragments or shiny, bluish-

white rocks. It is chemically similar to amphetamine.

- Methamphetamine can be smoked, swallowed in the form of a pill or tablet, snorted, and injected after dissolving the powder in water or alcohol.
- Methamphetamine can lead to myocardial infarction (heart attack); it can cause stroke. The drug can affect the heart, the brain, and the kidneys. It can result in the blood pressure shooting up suddenly. So, it is a very dangerous drug if there is an overdose.
- Meth raises the amount of dopamine in the brain. Dopamine, a natural chemical, plays a role in body movement, motivation, and reinforcement of rewarding behaviours. According to NIDA, the ability of the drug to rapidly release high levels of dopamine in reward areas of the brain strongly reinforces drug-taking behaviour, making the user want to repeat the experience.
- The programme aims to increase women's participation in space exploration – 30% of its engineers are women.
- NASA expects to bring the first woman and person of colour to the Moon on Artemis III sometime after 2024.
- Artemis was a major deity in ancient Greece, worshiped at least as early as the beginning of the first millennium B.C., or even earlier. She was a daughter of Zeus, the chief god of the Olympians, who ruled the world from the summit of Mount Olympus. She was also the twin sister of Apollo, god of the Sun and oracles.
- As the goddess of animals and the wilderness, Artemis has also inspired environmental conservancy programs, in which the goddess is viewed as an example of a woman exercising her power by caring for the planet.

7- (c)

8- (c)

- Artemis I will send a rocket without a crew on a monthlong journey around the Moon.



**Que-1 Consider the following statements about Oncolytic viruses**

1- Oncolytic viruses (OVs) are viruses that selectively target and kill cancer cells while sparing normal ones.

2- Oncolytic viruses are thought not only to cause direct destruction of the tumour cells, but also to stimulate host anti-tumour immune system responses.

3- The first oncolytic virus to be approved by a regulatory agency was a genetically modified adenovirus named H101 by Shanghai Sunway Biotech.

Which of the following given above is/are correct

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

**Que-2 With reference to Port wine stain, consider the following statements**

1- A port wine stain is caused by an abnormal development of blood vessels.

2- This sometimes called a capillary malformation, due to a mutation early in the pregnancy when the baby is developing in the womb.

3- Port wine stains are the same as a similar birthmark that is known as 'strawberry hemangiomas'.

Which of the following given above is/are correct

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

**Que-3 With reference to Electricity (Amendment) Bill 2022, consider the following statements**

1- The government intends to bring in the principle of open access — which will allow consumers the right to choose their electricity provider, regardless of who controls the physical infrastructure in their locality or state.

2- The Bill will also amend Section 62 to allow graded revision in tariff after every five year.

3- The proposed amendment to Sections 42 and 14 of the Electricity Act will allow the use of distribution networks by all licensees "under provisions of non-discriminatory open access".

Which of the following given above is/are correct

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

**Que-4 With reference to University Laws (Amendment) Bill, 2022, consider the following statements about**

1- It alters the composition of the search-cum-selection committee to appoint Vice Chancellors and effectively provide the State government greater leverage in the process.

2- Its passage will enhance the appointment age of Vice Chancellors to 65 years.

3- It increase the strength of the selection committee to ten (from the existing five).

Which of the following given above is/are correct

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

**Que-5 Consider the following statements about Single-use plastic**

1- Plastic waste has drastic impacts on the environment and human health.

2- There is a greater likelihood of single-use plastic products ending up in the sea than reusable ones.

3- India piloted a resolution on single-use plastics pollution at the 4th United Nations Environment Assembly in 2019, recognising the urgent need for the global community to address this issue.

Which of the following given above is/are correct

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

**Que-6 What are the plastic waste management rules in India?**

1- Prohibited the manufacture, import, stocking, distribution, sale, and use of plastic carry bags whose thickness is less than 25 microns.

2- Plastic or PVC banners/ hoardings should have more than 100 microns in thickness, and non-woven plastic (polypropylene) must be more than 60 GSM (grams per square metre).

Which of the following given above is/are correct

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

**Que-7 Consider the following statements about Stockholm Junior Water Prize**

1- This is an international competition where students of any age will present solutions to major water challenges.

2- The international Stockholm Junior Prize winner receives a USD 15,000 scholarship and a blue crystal sculpture.

3- Beginning in 1995, the award is given annually for an outstanding water project by a young person or a small group of young people at a ceremony held during the World Water Week in Stockholm.

Which of the following given above is/are correct

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

**Que-8 Consider the following statements about Algae blooms**

1- They impact water quality and ecosystem diversity, cause dead zones and cost the fishing and tourism industries millions of dollars.

2- An algal bloom or algae bloom is a rapid increase or accumulation in the population of algae in freshwater or marine water systems.

3- Algal bloom commonly refers to the rapid growth of microscopic algae, not macroscopic unicellular algae.

Which of the following given above is/are correct

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

**ANSWER**

1- (c)

- The first oncolytic virus to be approved by a national regulatory agency was genetically unmodified ECHO-7 strain enterovirus RIGVIR, which was approved in Latvia in 2004 for the treatment of skin melanoma; the approval was withdrawn in 2019. An oncolytic adenovirus, a genetically modified adenovirus named H101, was approved in China in 2005 for the treatment of head and neck cancer. In 2015, talimogene laherparepvec (OncoVex, T-VEC), an oncolytic herpes virus which is a modified herpes simplex virus, became the first oncolytic virus to be approved for use in the U.S. and European Union, for the treatment of advanced inoperable melanoma.

2- (a)

- ‘Port wine stain’, a name that derives from the way it looks.
- People who have the mark are usually born with it, most often on the face or arms. On more than six out of 10 occasions, port wine stains appear on the head or neck. The stain is for life, even though it may sometimes become thicker, darken, or develop a bumpy or ridged texture as the person grows older. On other occasions, the stain might fade or become lighter with age and time.
- Port wine stains are not the same as a similar birthmark that is known as ‘strawberry hemangiomas’. This is a non-cancerous tumour that is formed under the skin due to the clumping of blood vessels, and appears as a somewhat raised, dark red patch. This birthmark usually fades away by the time the child is about 10 years old.
- A port wine stain is caused by an abnormal development of blood vessels, sometimes called a capillary malformation, due to a mutation early in the pregnancy when the baby is developing in the womb. The reason for the mutation is not clear — it is not inherited, nor is it the result of something that has happened during the pregnancy.

3- (b)

- Under the Electricity (Amendment) Bill 2022, the government intends to bring in the principle of open access — which will allow consumers the right to choose their electricity provider, regardless of who controls the physical infrastructure in their locality or state. This would be similar to the way in which they can select their mobile and internet service providers. How will it do that? The Bill, which proposes significant changes in the power distribution sector, will allow multiple distribution licensees to function in an area. Having been cleared by the Union Cabinet, the Bill proposes to amend Sections 42 and 14 of the Electricity Act. Thus, it will enable competition in retail power distribution.
- The Bill will also amend Section 62 to allow graded revision in tariff over a year. The Bill also says that an appropriate commission will fix the maximum ceiling and minimum tariff. An amendment to Section 166 is also slated to strengthen the regulators and the functions carried out by them. However, the Centre has dropped the proposal of privatising state-owned power distribution companies.



- 4- (a)
- It increase the strength of the selection committee to five (from the existing three).
- 5- (c)
- Littered single-use plastic items have an adverse effect on both terrestrial and aquatic ecosystems. All countries face a major environmental challenge due to pollution caused by single-use plastic items. India piloted a resolution on single-use plastics pollution at the 4th United Nations Environment Assembly in 2019, recognising the urgent need for the global community to address this issue. This resolution was adopted at the UN Environment Assembly as an important step forward. In the recently concluded 5th session of the United Nations Environment Assembly in March 2022, India engaged constructively with all member states to develop a consensus on a resolution to drive global action against plastic pollution.
  - However, India is not the first country to ban single-use plastics. Bangladesh became the first country to ban thin plastic bags in 2002; New Zealand banned plastic bags in July 2019. China had issued a ban on plastic bags in 2020 with a phased implementation.
- As of July 2019, 68 countries have plastic bag bans with varying degrees of enforcement.
- 6- (b)
- With effect from September 30, 2021, the Plastic Waste Management Amendment Rules, 2021, prohibited the manufacture, import, stocking, distribution, sale, and use of plastic carry bags whose thickness is less than 75 microns. From December 31, 2022, plastic carry bags whose thickness is less than 120 microns will be banned.
  - The notification clearly mentioned that plastic or PVC banners/ hoardings should have more than 100 microns in thickness, and non-woven plastic (polypropylene) must be more than 60 GSM (grams per square metre). Non-woven plastic bags have a cloth-like texture but are counted among plastics. Still, plastic or PET bottles, counted among the most recyclable types of plastic, have been left out of the scope of the ban.
- 7- (d)
- A student from Canada has received the prestigious 2022 Stockholm Junior Water Prize for her research on how to treat and prevent harmful algae blooms.

- This is an international competition where students aged 15 to 20 years present solutions to major water challenges.

8- (a)

- An algal bloom or algae bloom is a rapid increase or accumulation in the population of algae in freshwater or marine water systems. It is often recognized by the discoloration in the water from the algae's pigments. The term algae encompasses many types of aquatic photosynthetic organisms, both macroscopic multicellular organisms like seaweed and microscopic unicellular organisms like cyanobacteria. Algal bloom commonly refers to the rapid growth of microscopic unicellular algae, not macroscopic algae. An example of a macroscopic algal bloom is a kelp forest.
  - Algal blooms are the result of a nutrient, like nitrogen or phosphorus from various sources (for example fertilizer runoff or other forms of nutrient pollution), entering the aquatic system and causing excessive growth of algae. An algal bloom affects the whole ecosystem.
-

**Que-1 IMF bailouts are not insurance against economic crisis and their effectiveness depends on certain factors. Which are**

1- The nature of the country's macro-economic fundamentals: outward-looking policy driven by growth strategies or does it have inconsistent weak fundamentals fuelled by macro-economic populism.

2- The nature of the economy's growth model: growth driven by domestic savings or foreign capital, reliant on manufacturing sector or natural resources — which in turn determines its vulnerability to external shocks.

3- The degree of political stability and quality of governance which are directly correlated to effectiveness of policy response.

Which of the following given above is/are correct

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

**Que-2 With reference to Human Papilloma Virus (HPV), consider the following statements**

1- HPV is a genetically transmitted infection.

2- Many people don't have any symptoms, and the infection might go away on its own.

3- Some types of HPV can lead to cervical cancer, head and neck cancer.

Which of the following given above is/are correct

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

**Que-3 With reference to Mission Karmayogi, consider the following statements**

1- National Programme for Civil Services Capacity Building (NPCSCB).

2- The programme aims "comprehensive reform of the capacity building apparatus at individual, institutional and process levels for efficient public service delivery".

3- It will aim to allocate roles and jobs based on cadre of the officers.

Which of the following given above is/are correct

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

**Que-4 Consider the following statements about coarse cereals**

1- Coarse grains refer to cereal grains other than wheat and rice or those used primarily for animal feed or brewing.

2- Finger millet is the richest source of Iron (300 to 350 mg/100 g grain).

3- These are largely grown in the semi-arid tropical regions of Asia and Africa, under rain-fed farming systems with little external inputs.

Which of the following given above is/are correct

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

**Que-5 Consider the following statements about Smart Solutions Challenge and Inclusive Cities Awards 2022**

1- The awards were an initiative of the National Institute of Urban Affairs and the World Bank.

2- Awarded for addressing the city-level challenges of accessibility and the inclusion for persons with disabilities, women and girls and senior citizens.

3- Belagavi Smarty City's system for those with disabilities to access education and healthcare was awarded the top prize in the category of implemented solutions.

Which of the following given above is/are correct

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

**Que-6 Consider the following statements about Uyghurs**

1- The Uyghurs are Turkic-speaking Muslims from the Central Asian region.

2- The largest population live in China's autonomous Xinjiang region, in the country's southern part.

3- They are one of China's 55 officially recognized ethnic minorities.

Which of the following given above is/are correct

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

**Que-7 "Hinnamnor" recently in news, is a name of**

- a) Volcano  
b) India's new Atlantic Station  
c) Space Mission  
d) Typhoon
-



**Que-8 Consider the following statements about INS Vikrant**

1- INS Vikrant, with pennant number R11, was the first-ever aircraft carrier that was operated by the Indian Navy.

2- The first ever aircraft carrier to be indigenously designed and constructed.

3- The plan for building an indigenous aircraft carrier started taking shape as the old INS Vikrant neared its decommissioning in the late 1990s.

Which of the following given above is/are correct

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

**ANSWER**

1- (c)

- IMF bailouts are therefore not insurance against economic crisis and their effectiveness depends on certain factors.
- First, the nature of the country's macro-economic fundamentals: outward-looking policy driven by growth strategies or does it have inconsistent weak fundamentals fuelled by macro-economic populism?
- Second is the nature of the economy's growth model: growth driven by domestic savings or foreign capital, reliant on manufacturing sector or natural resources — which in turn determines its vulnerability to external shocks.
- Third is the degree of political stability and quality of governance which are directly correlated to effectiveness of policy response. Fourth and an all-pervasive factor is the mismatch between the IMF loan and conditions of structural adjustment imposed on the crisis-ridden economy. While, the former is short-term in nature, structural adjustment is a long-term commitment. Accordingly, it stands to reason that such a time mismatch impacts the effectiveness of the IMF loans.

2- (d)

- HPV is a sexually transmitted infection.
- HPV isn't just one virus. There are more than 100 kinds, and some are riskier than others.
- HPV lives in thin, flat cells called epithelial cells. These are found on the skin's surface. They're also found on the surface of the vagina, anus, vulva, cervix and head of the penis. They're also found inside the mouth and throat.
- About 60 of the 100 HPV types cause warts on areas like the hands or feet. The other 40 or so enter the body during sexual contact. They're drawn to the body's mucous membranes, such as the moist layers around the anus and genitals.
- Not all of the 40 sexually transmitted human papillomaviruses cause serious health problems.

3- (a)

- It will aim to allocate roles and jobs based on competencies of the officers.
- The mission aims to prepare civil service officers for the future by making them more "creative, constructive, imaginative, innovative,

proactive, professional, progressive, energetic, enabling, transparent and technology-enabled.'

- The programme will try to improve human resource management practices among the officers. It will focus more on role based management. It will aim to allocate roles and jobs bases on competencies of the officers.
- The mission has also created an online platform called as iGOT-Karmayogi. iGOT stands for Integrated Government Online Training. This platform will provide content to learn from global best practices rooted in "Indian ethos". Civil servants will also have to undertake courses on this platform on which the officers' performance will be evaluated. A Special Purpose Vehicle will monitor the platform. The SPV will be a not-for-profit organisation under Section 8 of the Companies Act.

4- (b)

- Coarse cereals include maize, sorghum (Jowar; Sorghum vulgare), oats, barley, pearl millet (Bajra) and other minor millets such as Finger millet (Ragi;), Kodo millet (Arikalu), Proso millet (Cheena), Foxtail millet (Kauni), Little millet (Kutki) and Barnyard millet (Sanwa).

- They are rich in dietary energy, vitamins, several minerals (especially micronutrients such as iron and zinc), insoluble dietary and phytochemicals with antioxidant properties.
- Finger millet is the richest source of calcium (300 to 350 mg/100 g grain).
- Small millets are a good source of phosphorus and iron.

5- (d)

- The awards were an initiative of the National Institute of Urban Affairs and the United Nations in India.
- In the category of early-stage innovations, the winner was a wearable technology product, Fifth Sense by Glovatrix Pvt. Ltd., that translates sign language gestures to speech and text using sensors and AI. In the second category of market-ready solutions, Mouseware by Dextroware Devices Pvt. Ltd. was the winner. Mouseware is a head-wearable device that enables hands-free control of computers and smart gadgets.
- Belagavi Smarty City's system for those with disabilities to access education and healthcare was awarded the top prize in the category of implemented solutions.

6- (b)

- The Uyghurs are Turkic-speaking Muslims from the Central Asian region. The largest population live in China's autonomous Xinjiang region, in the country's north-west. The Uyghurs are one of a number of persecuted Muslim minorities in Xinjiang, including the Kazakhs, Uzbeks, Tajiks, Kyrgyz and Hui.
- The region's name suggests the Uyghurs have autonomy and self-governance. But similar to Tibet, Xinjiang is a tightly controlled region of China.

7- (d)

- The strongest global storm of 2022, Super Typhoon Hinnamnor, advancing towards Japan's Okinawa at a speed of about 257 kmph and with gusts of wind reaching speeds of 314 kmph.

8- (c)

- The commissioning of India's first Indigenous Aircraft Carrier (IAC-1) into the Navy as INS Vikrant marks a defining moment. The first ever aircraft carrier to be indigenously designed and constructed, INS Vikrant will strengthen the country's standing as a 'Blue Water Navy' — a maritime force with global reach and capability to operate over deep seas.

- The Sanskrit word Vikrant, which means courageous, finds its origins in various scriptures including the Bhagwad Gita. The sixth shloka in the first chapter of the Gita, while describing the valour of some Generals from the army of Pandavas, uses the adjective 'Vikrant'.
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**Que-1 With reference to Special maternity leave, recently modified, consider the following statements**

- 1- The Centre has decided to grant a 60-day special maternity leave for women Central government employees in case of stillbirth or death of an infant within a few days of birth.
- 2- The condition for death of a child soon after birth may be defined as up to 14 days after birth.
- 3- A baby born with no signs of life at or after 28 weeks of gestation may be defined as stillbirth.

Which of the following given above is/are correct

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

**Que-2 With reference to System for Pensions Administration - Raksha or SPARSH, consider the following statements**

- 1- SPARSH is a web-based system processing pension claims and crediting the pension directly into the bank accounts of defence pensioners without any external intermediary.
- 2- It is being implemented by Ministry of Personnel, Public Grievances and Pensions.

Which of the following given above is/are correct

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

**Que-3 Consider the following statements about 14th India-UAE Joint Commission Meeting**

- 1- Achieving the goal of 100 billion US dollars of bilateral trade in the next five years.
- 2- Both countries have noted the possibility of linking instant payment platforms, such as through the United Payment Interface of India.
- 3- One MoU was signed between the Wildlife Institute of India and the International Fund for Houbara Conservation for the Conservation of the Great Indian Bustard and the Lesser Florican.

Which of the following given above is/are correct

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

**Que-4 With reference to Competition Commission of India (CCI), consider the following statements**

- 1- It is a statutory body within the Ministry of Ministry of Commerce and Industry.
- 2- It is responsible for enforcing the Competition Act, 2002 in order to promote

competition and prevent activities that have an appreciable adverse effect on competition in India.

3- CCI approves combination under the act so that two merging entities do not overtake the market.

Which of the following given above is/are correct

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

**Que-5 Consider the following statements**

1- India has overtaken the U.K. to become the world's fifth-largest economy.

2- Now India is behind only the US, China, Japan and Canada.

3- India has a population 20 times that of the U.K. and so its GDP per capita is lower.

Which of the following given above is/are correct

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

**Que-6 In a unique and first-of-its-kind initiative, the Department of Science and Technology, DST has undertaken to set up India's first-ever Night Sky Sanctuary in**

- a) Jammu & Kashmir  
b) Ladakh  
c) Uttarakhand  
d) Sikkim
- 

**Que-7 Consider the following statements about National Legal Services Authority of India (NALSA)**

1- Its purpose is to provide free legal services to eligible candidates, and to organize Lok Adalats for speedy resolution of cases.

2- The Chief Justice of India is the Executive-Chairman of NALSA.

3- The prime objective of NALSA is speedy disposal of cases and reducing the burden of judiciary.

Which of the following given above is/are correct

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

**Que-8 With reference to Shumang Leela Festival, consider the following statements**

- 1- It is a traditional form of theatre in Mizoram, North East India.
- 2- The roles are all played by male actors, some dressed as beautiful ladies.
- 3- The present day Shumang Leelas address the issues of moral values, unity and integrity.

Which of the following given above is/are correct

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

**ANSWER**

- 1- (b)
  - The condition for death of a child soon after birth may be defined as up to 28 days after birth.
  - The benefit of special maternity leave shall be admissible only to a woman Central government servant with less than two surviving children and for a child born only in an authorised hospital, which is defined as government hospital or private hospital empanelled under the Central Government Health Scheme (CGHS). "In case of emergency delivery in non-empanelled private

hospital, production of emergency certificate is mandatory.

- 2- (a)
  - It is being implemented by Ministry of Defence.
- 3- (c)
  - Another MoU was signed between the Ministry of Foreign Affairs and International Cooperation of UAE and the Indian Council for Cultural Relations on the establishment of the India-UAE Cultural Council Forum.
  - The UAE is India's third largest trade partner. Around 35 lakh Indians live in the UAE and play a major role in the economic development of the UAE.
- 4- (d)
  - It is a statutory body within the Ministry of Corporate Affairs.
- 5- (b)
  - Now India is behind only the US, China, Japan and Germany.
  - A decade back, India was ranked 11th among the large economies while the U.K. was at the fifth position.
  - With record beating expansion in the April-June quarter, the Indian economy has now overtaken the U.K., which has slipped to the sixth spot.

6- (b)

- The proposed Dark Sky Reserve will be located at Hanle in Ladakh as a part of Changthang Wildlife Sanctuary. It will boost Astro tourism in India and will be one of the world's highest-located sites for optical, infrared, and gamma-ray telescopes.

time of monarchical rule in Manipur. But the proper form of Shumang Leela had its inception in 1895 A.D.

- The present day Shumang Leelas address the issues of moral values, unity and integrity. The fostering of bonds of brotherhood and friendship among various communities in the State is also promoted by the theatre.

7- (b)

- National Legal Services Authority of India (NALSA) was formed on 9 November 1995 under the authority of the Legal Services Authorities Act 1987.
- The NALSA has been constituted under the Legal Services Authorities Act, 1987 to provide free Legal Services to the weaker sections of the society.
- The Chief Justice of India is patron-in-chief of NALSA while the second senior-most Judge of the Supreme Court of India is the Executive-Chairman.

8- (d)

- It is a traditional form of theatre in Manipur, North East India.
- The role of male characters are played by female artists in case of female theatre groups. This traditional theatre form was prevalent since the



**Que-1 With reference to Inflatable Aerodynamic Decelerator (IAD), recently in News, Consider the following statements**

- 1- Designed and developed by ISRO's Vikram Sarabhai Space Centre (VSSC).
- 2- The IAD was recently successfully test flown in a 'Rohini' sounding rocket from Thumba Equatorial Rocket Launching Station.
- 3- IAD technology can also be used in ISRO's future missions to Moon.

Which of the following given above is/are correct

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

**Que-2 With reference to Nano urea, consider the following statements**

- 1- A product developed by The Council of Scientific and Industrial Research, CSIR.
- 2- Nano urea is a patented and indigenously made liquid that contains nanoparticles of urea, the most crucial chemical fertiliser for farmers in India.
- 3- A single half-litre bottle of the liquid can compensate for a 45kg sack of urea that farmers traditionally rely on.

Which of the following given above is/are correct

- a) 1 and 2 only      b) 1 only

- c) 1, 2 and 3      d) 2 and 3 only

**Que-3 With reference to Ramon Magsaysay Award, consider the following statements**

- 1- Established in 1957, the Ramon Magsaysay Award was founded to preserve former Phillippine President Ramon Magsaysay's example of integrity in governance and idealism in a democratic society.
- 2- It was funded by the Phillippine government's.
- 3- The Award recognises and honours individuals and organisations in Asia, regardless of race, creed, gender, or nationality, who have achieved distinction and have helped others generously without aiming for public recognition

Which of the following given above is/are correct

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

**Que-4 Consider the following statements**

- 1- Section 437 of the CrPC deals with bail in case of non-bailable offences.
- 2- A police officer may arrest a person who has committed a cognisable offence without a judicial order or a warrant (Section 41).
- 3- A proviso was introduced in the CrPC in 2009 to the effect that where a woman is to be arrested, only a female police officer may touch the woman's person, unless circumstances otherwise require.

Which of the following given above is/are correct

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

**Que-5 What is contempt of court?**

- 1- Around the world, "contempt of court", or simply "contempt", is understood as a set of legal provisions that firewall courts, and safeguard and protect their ability to dispense justice.
- 2- It is also understood to describe acts of defiance or disrespect of court orders or judges, and to ascribe motives to them.
- 3- According to The Contempt of Courts Act, 1971, contempt of court can either be civil contempt or criminal contempt.

Which of the following given above is/are correct

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

**Que-6 What are floppy disks?**

- 1- A floppy disk is a removable disk storage device used to save computer data and programmes.
- 2- By 2011, all floppy disk manufacturing ceased.
- 3- First developed by Microsoft, is only able to store about 800 KB of data, which is about 0.0008 GB.

Which of the following given above is/are correct

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

**Que-7 What is kurki?**

- 1- Kurki orders are executed under Section 60 of Criminal Procedure Code, 1908.
- 2- Apart from banks, private moneylenders, commission agents also get these decrees against farmers from time to time.
- 3- Kurki means attachment of a farmer's land, already pledged to the money lending

institution or individual, in case of a loan default.

Which of the following given above is/are correct

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

**Que-8 With reference to PM-SHRI scheme, consider the following statements**

1- Pradhan Mantri Schools for Rising India (PM-SHRI) Yojana.

2- 14,500 schools across the country will be developed and upgraded under this scheme.

Which of the following given above is/are correct

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

## ANSWER

- 1- (a)
- Designed and developed by ISRO's Vikram Sarabhai Space Centre (VSSC), IAD is a game-changer with multiple applications for future missions including to Mars and Venus.
  - The IAD was successfully test flown in a 'Rohini' sounding rocket from Thumba Equatorial Rocket Launching Station.
  - Rohini sounding rockets are routinely used for flight demonstration of new technologies being developed by ISRO as well as by scientists from India and abroad.
  - The IAD was initially folded and kept inside the payload bay of the rocket. At around 84 km altitude, the IAD was inflated and it descended through the atmosphere with the payload part of a sounding rocket.
  - The IAD has systematically reduced the velocity of the payload through aerodynamic drag and followed the predicted trajectory.
  - After witnessing the launch, ISRO Chairman S Somanath said, this demonstration opens a gateway for cost-effective spent stage recovery using the Inflatable Aerodynamics

Decelerator technology and this IAD technology can also be used in ISRO's future missions to Venus and Mars.

2- (d)

- A product developed by the Indian Farmers and Fertiliser Cooperative (IFFCO).
- By 2025, India's domestic urea production as well as that of nano-urea would together mean India would be "self sufficient," in the manufacture of urea -the most important fertiliser for India's farmers-- and would no longer require the 90 lakh tons that it imported every year and would save the country close to ₹40,000 crore.
- The standard practice when sowing crops such as wheat, rice, mustard is to use at least two 45-kg sacks of urea, an inorganic compound and the crops' main source of nitrogen. The first is applied during the early sowing or transplantation stage of the crop. The second stage application is done when the plant has sprouted a canopy of leaves, and is approaching the reproductive phase of plant growth.

3- (b)

- It was funded by the Rockefeller Brothers trustees with Philippine government's agreement.

- Ramon Magsaysay was the third president of the Philippines after World War II. The foundation gives the prize to Asians achieving excellence in their field. It has six categories, five of which were discontinued in 2009:

- Government Service (Until 2008)
- Public Service (Until 2008)
- Community Leadership (Until 2008)
- Journalism, Literature, and Creative Communication Arts (Until 2008)
- Peace and International Understanding (Until 2008)
- Emergent Leadership (2001–)
- Uncategorized (2009–)

4- (c)

- Section 437 of the CrPC deals with bail in case of non-bailable offences. It says a person shall not be released on bail if there is reasonable ground to believe that he has committed an offence punishable with death or life imprisonment; or, if he has been previously been convicted for an offence punishable with death, life imprisonment, or for a term of seven years or more; or been convicted on two or more occasions on other offences with a term between three and seven years. However, it also



contains exceptions in a proviso that says the court may grant bail even in these cases, “if such person is under the age of 16 or is a woman or is sick or infirm”.

- A police officer may arrest a person who has committed a cognisable offence without a judicial order or a warrant (Section 41). If the person does not submit to custody based on the word or action of the police, Section 46 enables the police officer to confine the person physically to effect the arrest. A proviso was introduced in the CrPC in 2009 to the effect that where a woman is to be arrested, only a female police officer may touch the woman’s person, unless circumstances otherwise require.
- Earlier, through a 2005 amendment, a subsection was added to Section 46 to prohibit the arrest of a woman after sunset or before sunrise. However, in exceptional circumstances, a woman police officer can obtain the prior permission of a judicial magistrate to make the arrest.

5- (c)

- The Cornell Law School’s Legal Information Institute defines contempt as “the disobedience of an order of a court” and, “also conduct

tending to obstruct or interfere with the orderly administration of justice”.

- Civil contempt means “wilful disobedience to any judgment, decree, direction, order, writ or other process of a court, or wilful breach of an undertaking given to a court”.
- Criminal contempt, on the other hand, is attracted by “the publication (whether by words, spoken or written, or by signs, or by visible representations, or otherwise) of any matter or the doing of any other act whatsoever which:

(i) scandalises or tends to scandalise, or lowers or tends to lower the authority of, any court; or

(ii) prejudices, or interferes or tends to interfere with, the due course of any judicial proceeding; or

(iii) interferes or tends to interfere with, or obstructs or tends to obstruct, the administration of justice in any other manner.”

6- (a)

- First developed by IBM, is only able to store about 800 KB of data, which is about 0.0008 GB.

7- (d)

- Kurki orders are executed under Section 60 of Civil Procedure Code, 1908. The land which is pledged by the farmer to the bank or money lender gets registered in their name. In some cases, the land is auctioned as well. The process begins after the money lender moves court to get kurki orders in case the farmer is unable to pay back his loan. In kurki, attachment of farmer's land as well as his tractor can be done as per the Section 60.

8- (c)

- The PM-SHRI schools will have a modern, transformational and holistic method of imparting education. Emphasis will be on a discovery oriented, learning centric way of teaching. Focus will also be on modern infra including latest technology, smart classrooms, sports and more.
-

**Que-1 Consider the following statements about University Grants Commission (UGC)**

1- It is a statutory body set up by the Department of Higher Education, Ministry of Education, in accordance to the UGC Act 1956.

2- The headquarters are in Kolkata.

3- It provides recognition to universities in India, and disbursements of funds to such recognized universities and colleges.

Which of the following given above is/are correct

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

**Que-2 What is conversion therapy?**

1- Conversion or reparative therapy is an intervention aimed at changing the sexual orientation or gender identity of an individual with the use of either psychiatric treatment, drugs, exorcism and even violence.

2- The aim being to make the individual a heterosexual.

3- This includes efforts to change the core identity of youth whose gender identity is incongruent with their sex anatomy.

Which of the following given above is/are correct

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

**Que-3 Consider the following statements about Valliyappan Olaganathan Chidambaram Pillai**

1- He was an Indian freedom fighter and former leader of the Indian National Congress.

2- He founded the Swadeshi Steam Navigation Company in 1906 to compete against the monopoly of the British India Steam Navigation Company (BISNC).

3- He launched the first indigenous Indian shipping service between Visakhapatnam (India) and Colombo (Sri Lanka).

Which of the following given above is/are correct

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

**Que-4 Consider the following statements about Pupil-teacher ratio over last one decade, according to Ministry of Education**

1- In Primary Schools, the pupil teacher ratio which was at 23 in 2010-11 has increased to 26.3 in 2020- 21.

2- In Upper Primary schools, the pupil-teacher ratio has reduced from 33 in 2010-11 to 18.9 in 2020-21.

3- The Pupil Teacher Ratio at different levels of education show availability of adequate number of teachers for teaching children enrolled at different grade.

Which of the following given above is/are correct

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

**Que-5 With reference to Mohenjo Daro, consider the following statements**

1- It is the best known site of the Iron Age urban civilization that flourished in the valley of the Indus between roughly 3,300 BC and 1,300 BC, with its 'mature' phase spanning the period 2,600 BC to 1,900 BC.

2- The civilization went into decline in the middle of the second millennium BC for reasons that are believed to include catastrophic climate change.

3- At its peak, Mohenjo Daro, literally 'Mound of the Dead', has been estimated to have between 30,000 and 60,000 residents with a highly evolved social organisation.

Which of the following given above is/are correct

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

**Que-6 With reference to Preventive detentions, consider the following statements**

1- According to Section 151 of the Code of Criminal Procedure, the police are empowered to make preventive arrests if they believe they must do so to prevent the commission of "any cognisable offence".

2- In India, preventive detention is for a maximum period of six months, a limit which can be changed by the Parliament.

3- Preventive detention in India dates from British rule in the early 1800s, and continued with such laws as the Defence of India Act, 1939 and the Preventive Detention Act 1950.

Which of the following given above is/are correct

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



**Que-7 Consider the following statements about Unicorn**

1- India ranks globally 5th in Start-Up ecosystem and also in terms of number of Unicorns.

2- Unicorn is the term used in the venture capital industry to describe a startup company with a value of over \$1 billion.

3- The term was first coined by venture capitalist Aileen Lee in 2013.

Which of the following given above is/are correct

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

**Que-8 Maitree Super Thermal Power Plant is a joint venture between**

- a) India-Bangladesh  
b) India-Sri Lanka  
c) India-Nepal  
d) India-Maldives

**ANSWER**

1- (b)

- It is charged with coordination, determination and maintenance of standards of higher education in India.
- The headquarters are in New Delhi, and it has six regional centres in Pune, Bhopal, Kolkata, Hyderabad, Guwahati and Bangalore. A proposal to replace it with another new regulatory body called HECI is under consideration by the Government of India. The UGC provides doctoral scholarships to all those who clear JRF in the National Eligibility Test.

2- (c)

- Conversion or reparative therapy is an intervention aimed at changing the sexual orientation or gender identity of an individual with the use of either psychiatric treatment, drugs, exorcism and even violence, with the aim being to make the individual a heterosexual.
- The conversion therapy umbrella also includes efforts to change the core identity of youth whose gender identity is incongruent with their sex anatomy. Often, the therapy is offered by quacks with little expertise in dealing with the issue.

- According to the American Academy of Child and Adolescent Psychiatry (AACAP), the interventions under conversion therapy are provided under the false premise that homosexuality and diverse gender identities are pathological.
  - “They are not; the absence of pathology means there is no need for conversion or any other like intervention.” Further, according to AACAP and other health experts, conversion therapy poses the risk of causing or exacerbating mental health conditions, like anxiety, stress and drug use which sometimes even lead to suicide.
- 3- (a)
- He launched the first indigenous Indian shipping service between Tuticorin (India) and Colombo (Sri Lanka).
  - Tuticorin Port Trust, one of India's thirteen major ports, is named after him.
  - At one time a member of the Indian National Congress, he was later charged with sedition by the British government and sentenced to life imprisonment, and his barrister license was revoked.
- 4- (d)
- In Primary Schools, the pupil teacher ratio which was at 43 in 2010-11 has come down to 26.3 in 2020- 21.
- 5- (d)
- It is the best known site of the Bronze Age urban civilization that flourished in the valley of the Indus between roughly 3,300 BC and 1,300 BC, with its ‘mature’ phase spanning the period 2,600 BC to 1,900 BC.
- 6- (b)
- According to Section 151 of the Code of Criminal Procedure, the police are empowered to make preventive arrests if they believe they must do so to prevent the commission of “any cognisable offence”. This detention can be extended beyond 24 hours if required “under any other provisions of this Code or of any other law”.
  - In India, preventive detention is for a maximum period of three months, a limit which can be changed by the Parliament. According to Preventive Detention Act 1950, it can be extended beyond three months up to a total of twelve months, only on the favourable recommendation of an advisory board, made up of High Court judges or persons eligible to be appointed High Court judges.

7- (d)

- India ranks globally 3rd in Start-Up ecosystem and also in terms of number of Unicorns.

8- (a)

- A 50:50 joint venture between India's NTPC and Bangladesh Power Development Board.
- 

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**Que-1 With reference to National Commission for Scheduled Castes, Consider the following statements**

- 1- It is non constitutional body.
- 2- Under the jurisdiction of Ministry of Social Justice and Empowerment.
- 3- Established with a view to provide safeguards against the exploitation of Scheduled Castes and Anglo Indian communities to promote and protect their social, educational, economic and cultural interests, special provisions were made in the Constitution.

Which of the following given above is/are correct

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

**Que-2 With reference to International Atomic Energy Agency, consider the following statements**

- 1- It is an international organization that seeks to promote the peaceful use of nuclear energy, and to inhibit its use for any military purpose, including nuclear weapons.
- 2- Based in Geneva, the IAEA serves as an intergovernmental forum for scientific and technical co-operation on the peaceful use of nuclear technology and nuclear power worldwide.

- 3- Though established independently of the United Nations through its own international treaty (the IAEA Statute), the IAEA reports to both the General Assembly and the Security Council of the UN.

Which of the following given above is/are correct

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

**Que-3 The UN Framework Convention on Climate Change (UNFCCC), the 1994 international agreement that lays down the broad principles of the global effort to fight climate change, acknowledges**

- 1- It makes it very clear that rich countries must provide both the finance and the technology to the developing nations to help them tackle climate change.
- 2- It is this mandate that later evolved into the \$100 million amount that the rich countries agreed to provide every year to the developing world.

Which of the following given above is/are correct

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



**Que-4 Consider the following statements about National Centre for Disease Control (NCDC)**

1- It is an institute under the Indian Directorate General of Health Services, Ministry of Health and Family Welfare.

2- It was established in July 1963 for research in epidemiology and control of communicable diseases and to reorganize the activities of the Malaria Institute of India.

3- The headquarter is in Hyderabad.

Which of the following given above is/are correct

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

**Que-5 Consider the following statements about Section 66A of the Information Technology Act**

1- Under the scrapped section 66A of the IT Act, a person posting offensive content could be imprisoned for up to seven years and also fined.

2- The amendment to the IT Act, 2000, gave the government power to arrest and imprison an individual for allegedly “offensive and menacing” online posts, and was passed without discussion in Parliament.

3- The Supreme Court in Shreya Singhal v. Union of India case struck down Section 66A

of the Information Technology Act, 2000, relating to restrictions on online speech, as unconstitutional on grounds of violating the freedom of speech guaranteed under Article 19(1)(a) of the Constitution of India.

Which of the following given above is/are correct

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

**Que-6 The iconic Rajpath, stretching from Rashtrapati Bhavan to India Gate, was renamed as**

- a) Ram Path  
b) Kartavya Path  
c) Vikas Path  
d) Vijay Path

**Que-7 Consider the following statements about “Women in Engineering, Science, and Technology (WEST)”**

1- A new I-STEM (Indian Science Technology and Engineering facilities Map) initiative.

2- The WEST programme will cater to women with a STEM background and empower them to contribute to the science, technology, and innovation ecosystem.

3- The Skill Development programmes under the WEST initiative will provide training for women with S&T backgrounds to

brush up on their abilities and become engaged “in the field” as lab technicians and maintenance engineers, filling crucial gaps in the R&D infrastructure of the country.

Which of the following given above is/are correct

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

**Que-8 According to a latest report on social protection by the International Labour Organisation (ILO), consider the following statements**

1- Only 24.4 per cent of Indians, even fewer than Bangladesh (28.4 per cent), are under any sort of social protection benefit.

2- The report notes that Mongolia, New Zealand, Singapore and Australia have 100 per cent social protection net, while in Myanmar and Cambodia, the number stands below 10 per cent.

3- One out four workers in the Asia Pacific region are not protected in the event of illness or injury sustained at work.

Which of the following given above is/are correct

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

## ANSWER

- 1- (d)
- It is an Indian constitutional body.
  - Article 338 of the Indian constitution deals with National Commission for Scheduled Castes. Article 338 A deals with National Commission for Scheduled tribes.
- 2- (b)
- Based in Vienna, the IAEA serves as an intergovernmental forum for scientific and technical co-operation on the peaceful use of nuclear technology and nuclear power worldwide.
- 3- (a)
- It is this mandate that later evolved into the \$100 billion amount that the rich countries agreed to provide every year to the developing world.
- 4- (a)
- It has nine branches at Alwar, Bengaluru, Trivandrum, Calicut, Coonoor, Jagdalpur, Patna, Rajahmundry and Varanasi to advise the respective state governments on public health.
  - The headquarter is in New Delhi.

5- (d)

- Under the scrapped section 66A of the IT Act, a person posting offensive content could be imprisoned for up to three years and also fined.
- Terming liberty of thought and expression "cardinal", the top court had on March 24, 2015 done away with the provision, saying "the public's right to know is directly affected by Section 66A of the Information Technology Act".
- Later, it took a serious note of the use of the scrapped provision by the law enforcement agencies and issued notices to states and high court registries.
- Section 66A empowered police to make arrests over what policemen, in terms of their subjective discretion, could construe as "offensive" or "menacing" or for the purposes of causing annoyance, inconvenience, etc. It prescribed the punishment for sending messages through a computer or any other communication device like a mobile phone or a tablet, and a conviction could fetch a maximum of three years in jail.

6- (b)

- Called Kingsway during British rule, the three-km stretch was built as a ceremonial boulevard by Edwin Lutyens and Herbert Baker, the architects of New Delhi, more than a hundred years ago. The capital of the Raj moved to New Delhi from Calcutta in 1911, and construction continued for several years thereafter.
- Lutyens conceptualised the modern imperial city centred around a "ceremonial axis", which was named Kingsway in honour of the then Emperor of India, George V, who visited Delhi during the Durbar of 1911, where he formally proclaimed the decision to move the capital.
- The nomenclature followed that of the Kingsway in London, an arterial road built in 1905, which was named in honour of King Edward VII, the father of George V.

7- (c)

- I-STEM is a national web portal for sharing research equipment/facilities and is the umbrella under which many programmes for promoting collaborations in R&D and technological innovation among and

between academia and industry, especially startups, are underway.

behind men's by a substantial 8 percentage points.

8- (a)

- Three out four workers in the Asia Pacific region are not protected in the event of illness or injury sustained at work.
- The report titled 'World Social Protection Report 2020-22: Regional companion report for Asia and the Pacific' is a companion to the ILO's 'World Social Protection Report 2021-22', that gives a regional overview of the social protection in the Asia and Pacific region.
- Countries with lower GDP per capita tend to have low levels of work injury coverage for example, Afghanistan, India, Nepal and Pakistan cover fewer than 5 per cent of their workers.
- As of 2020, only 46.9 per cent of the global population was effectively covered by at least one social protection benefit, while the remaining 53.1 per cent as many as 4.1 billion people were left wholly unprotected. Highlighting the inherent gender inequality in the social protection coverage, the report makes note women's coverage lag

- The report further notes that the large majority of the working-age population in the world 69.4 per cent, or 4 billion people are only partially protected or not protected at all.
-



**Que-1 The Union Cabinet had recently approved the revised policy for railway land, which will**

1- The land can be now leased for cargo-related activities for up to 35 years (as against five years earlier) at 6% of market value of land per annum, up from 2% earlier.

2- The move is expected to enable integrated development of infrastructure and more cargo terminals, helping improve revenues for the Railways.

3- Approved to revise the railways' land policy to implement PM Gati Shakti framework (Cargo related activities, Public utilities & Railway's exclusive use).

Which of the following given above is/are correct

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

**Que-2 Consider the following statements about "Launda Naach"**

1- This is a folk dance of the Punjabi speaking Community of India, Nepal, Mauritius and the Caribbean Islands.

2- It is performed by only males who dress as women called "launda".

3- During the wedding ceremony launda dancers are a focal point, leading the groom's entourage to the bride's home.

Which of the following given above is/are correct

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

**Que-3 With reference to Eastern Economic Forum, consider the following statements**

1- Organised by the Roscongress Foundation.

2- The purpose of encouraging foreign investment in the Russian Far East.

3- It is an international forum held each year in Moscow, Russia.

Which of the following given above is/are correct

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

**Que-4 Consider the following statements**

1- A Vostro account is an account that a correspondent bank holds on behalf of another bank.

2- To settle trade transactions with any country, banks in India would open Vostro accounts of correspondent bank/s of the partner country for trading.

3- Currently, exports or imports by a company are always in a foreign currency,

with exceptions such as Nepal, Sri Lanka and Bhutan.

Which of the following given above is/are correct

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

**Que-5 With reference to India and Bangladesh meeting recently, consider the following statements**

1- Establishment of a joint technical committee to conduct a study for optimum utilisation of water received by Bangladesh under the provisions of the Ganges Water Sharing Treaty, 1996.

2- The Ganga Water Sharing Treaty is a 30-year agreement which is expected to be reviewed or renewed in 2026.

3- India and Bangladesh have been in talks for the construction of an Inland Container Depot (ICD) at Sirajganj in the north-west of capital Dhaka and help in movement of bulk items.

Which of the following given above is/are correct

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

**Que-6 Consider the following statements about Corporate social responsibility (CSR)**

1- Corporate social responsibility is a business model by which companies make a concerted effort to operate in ways that enhance rather than degrade society and the environment.

2- CSR helps both improve various aspects of society as well as promote a positive brand image of companies.

3- Corporate responsibility programs are also a great way to raise morale in the workplace.

Which of the following given above is/are correct

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

**Que-7 Consider the following statements about Bhitarkanika National Park**

1- Located in northeast Kendrapara district in Odisha in eastern India.

2- The area is also been designated as first Ramsar site of the State.

3- The national park and wildlife sanctuary is inundated by the rivers Brahmani, Baitarani, Dhamra, Pathsala.

Which of the following given above is/are correct

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

**ANSWER****Que-8 Consider the following statements about Uniform Civil Code**

1- It is one that would provide for one law for the entire country, applicable to all religious communities in their personal matters such as marriage, divorce, inheritance, adoption etc.

2- Article 50 of the Constitution lays down that the state shall endeavour to secure a Uniform Civil Code for the citizens throughout the territory of India.

Which of the following given above is/are correct

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

1- (d)

- The land can be now leased for cargo-related activities for up to 35 years (as against five years earlier) at 1.5% of market value of land per annum, down from 6% earlier.
- Additionally, 300 cargo terminals would be developed over next five years and about 1.2 lakh employment would be generated. The existing entities using railway land for cargo terminals will have the option to switch to the new policy regime after transparent and competitive bidding process.
- The move is also expected to speed up plans for divestment of 30.8% in Container Corporation of India Ltd. that was announced in 2019.

2- (d)

- In Bihar, the doyen of Bhojpuri folk theatre art "Launda Naach" and legendary artist Ram Chandra Manjhi passed away.
- This is a folk dance of the Bhojpuri speaking Community of India, Nepal, Mauritius and the Caribbean Islands.

3- (a)

- It is an international forum held each year in Vladivostok, Russia.
- Organised by the Roscongress Foundation, the Eastern Economic Forum describes itself as a key international platform for establishing and strengthening ties within the Russian and global investment communities, and for comprehensive expert evaluation of the economic and investment potential of the Russian Far East.
- The forum was established by the decree of President Putin in 2015 to support the economic development of Russia's Far East and to expand international cooperation in the Asia-Pacific region.

4- (a)

- Currently, exports or imports by a company are always in a foreign currency, with exceptions such as Nepal and Bhutan.
- To settle trade transactions with any country, banks in India would open Vostro accounts of correspondent bank/s of the partner country for trading. Indian importers can pay for their imports in INR into these accounts. These earnings from

imports can then be used to pay Indian exporters in INR.

- A Vostro account is an account that a correspondent bank holds on behalf of another bank — for example, HSBC Vostro account is held by SBI in India.

5- (c)

- The Ganga Water Sharing Treaty is a 30-year agreement which is expected to be reviewed or renewed in 2026. The Indian side also raised the "urgent" irrigation-related requirements in Tripura which can be addressed with the waters of the Feni and urged Bangladesh for "early signing of the interim water sharing agreement" on the river.
- Prime Minister Narendra Modi and Sheikh Hasina reviewed the upcoming bilateral connectivity initiatives such as the conversion to dual-gauge of Tongi-Akhaura line, supply of rolling stock, Kaunia-Lalmonirhat-Mogalhat-New Gitaldaha link and Hili-Birampur upgradation of track. Similar works are also on on the Benapole-Jashore and Burimari-Changrabandha lines. These multiple rail track projects will create a smooth flow of goods and people within Bangladesh overcoming infrastructure bottlenecks. India and Bangladesh have been in talks for the construction of an Inland Container Depot (ICD) at Sirajganj in the north-



west of capital Dhaka and help in movement of bulk items.

6- (c)

- CSRs are often broken into four categories: environmental impacts, ethical responsibility, philanthropic endeavors, and financial responsibilities.

7- (b)

- The area is also been designated as second Ramsar site of the State after the Chilika Lake.
- It was designated on 16 September 1998 and obtained the status of a Ramsar site on 19 August 2002.
- Gahirmatha Beach and Marine Sanctuary are to the east, separating swamp region and mangroves from the Bay of Bengal.
- It hosts many mangrove species, and is the second largest mangrove ecosystem in India.

8- (a)

- Article 44 of the Constitution lays down that the state shall endeavour to secure a Uniform Civil Code for the citizens throughout the territory of India.
-

**Que-1 With reference to Spent nuclear fuel storage, consider the following statements**

- 1- It is nuclear fuel that has been irradiated in a nuclear reactor (usually at a nuclear power plant).
- 2- Used nuclear fuel cannot be recycled to make new fuel.
- 3- It is no longer useful in sustaining a nuclear reaction in an ordinary thermal reactor and depending on its point along the nuclear fuel cycle, it may have considerably different isotopic constituents.

Which of the following given above is/are correct

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

**Que-2 With reference to UNDP's Human Development Index, consider the following statements**

- 1- India ranks 102 out of 191 countries in the Human Development Index (HDI) 2021.
- 2- The HDI measures average achievement of a country in three basic dimensions of human development — a long

and healthy life, education and a decent standard of living.

- 3- It is calculated using four indicators — life expectancy at birth, mean years of schooling, expected years of schooling, and the Gross National Income (GNI) per capita.

Which of the following given above is/are correct

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

**Que-3 Consider the following statements about Tuberculosis (TB)**

- 1- According to the United Nations Sustainable Development Goals, all nations have set the goal of eradicating TB by the year 2030.
- 2- Government of India has set the target of eradicating TB by the year 2028.
- 3- Tuberculosis (TB) is caused by a bacterium called Mycobacterium tuberculosis.

Which of the following given above is/are correct

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

**Que-4 Consider the following statements about Broken rice**

- 1- Broken rice is fragments of rice grains, broken in the field, during drying, during transport, or during milling.
- 2- Mechanical separators are used to separate the broken grains from the whole grains and sort them by size.
- 3- Broken rice is fragmented, not defective; so there is nothing wrong with it.

Which of the following given above is/are correct

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

**Que-5 With reference to World Dairy Summit, consider the following statements**

- 1- Theme of the 4-day event this year is 'Dairy for Nutrition and Livelihood'.
- 2- Last time India hosted the International Dairy Congress in 1974.

- 3- To be held in Gurgaon this year.

Which of the following given above is/are correct

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

**Que-6 Consider the following statements about Commonwealth of Nations**

- 1- It is a group of 56 member countries, the vast majority of which are former British colonies.
- 2- They are mostly in Africa, Asia, the Americas, and the Pacific.
- 3- No European nations are part of the Commonwealth.

Which of the following given above is/are correct

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

**Que-7 With reference to cyborg cockroaches, recently in News, consider the following statements**

- 1- They are pure machine.
- 2- Movements of these insects are controlled by tiny integrated circuits.
- 3- They will be able to conduct surveillance in procedures like urban search and rescue, environmental monitoring and inspection of areas dangerous to humans.

Which of the following given above is/are correct

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

**Que-8 Consider the following statements about Chola Dynasty**

- 1- The Chola Dynasty was a Tamil thalassocratic empire of southern India and one of the longest-ruling dynasties in world history.
- 2- The heartland of the Cholas was the fertile valley of the Kaveri River.

- 3- A UNESCO world heritage site, the Brihadisvara temple at Thanjavur, commissioned by the Rajaraja Chola in 1010 CE, is a prime example for Cholar architecture.

Which of the following given above is/are correct

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

### ANSWER

1- (b)

- The term "fuel" is slightly confusing, as it implies a combustion of some type, which does not occur in a nuclear power plant. Nevertheless, this term is generally accepted.
- Used nuclear fuel can be recycled to make new fuel and byproducts. More than 90% of its potential energy still remains in the fuel, even after five years of operation in a reactor.



2- (d)

- The Index is part of the Human Development Report 2021-2022 released by the United Nations Development Programme.
- India ranks 132 out of 191 countries in the Human Development Index (HDI) 2021, after registering a decline in its score over two consecutive years for the first time in three decades.
- The drop is in line with the global trend since the outbreak of COVID-19 during which 90% of the countries have fallen backward in human development.

3- (b)

- Tuberculosis (TB) is caused by a bacterium called Mycobacterium tuberculosis. The bacteria usually attack the lungs, but TB bacteria can attack any part of the body such as the kidney, spine, and brain. Not everyone infected with TB bacteria becomes sick.

- Government of India has set the target of eradicating TB by the year 2025.

4- (c)

- It is as nutritious as the equivalent quantity of unbroken rice (i.e. if all the germ and bran remains, it is as nutritious as brown rice; if none remains, it is only as nutritious as white rice).
- Broken rice has a long history; Ibn Baṭṭūṭa mentions rice couscous in the area of Mali in 1350, presumably made of African rice.

5- (a)

- To be held in Greater Noida this year.
- World Dairy Summit is an annual global event in the sector. India is number one in milk production and accounts for 23 per cent of the global output.

6- (a)

- Three European nations are part of the Commonwealth: Cyprus, Malta, and of course, the UK itself.
- The Commonwealth of Nations, or simply the Commonwealth, is a group of 56 member countries, the vast majority of which are former British colonies. They are mostly in Africa, Asia, the Americas, and the Pacific. Three European nations are part of the Commonwealth: Cyprus, Malta, and of course, the UK itself.
- Fourteen of these 56 countries — along with the UK — constitute the “Commonwealth realms”. They are Antigua and Barbuda, Australia, The Bahamas, Belize, Canada, Grenada, Jamaica, New Zealand, Papua New Guinea, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Solomon Islands, and Tuvalu. The British monarch — now King Charles III, the eldest son of Queen Elizabeth II — is the head of state of these countries.

- Of the remaining 41 member states of the Commonwealth, 36 are republics — this group includes India, Pakistan, Bangladesh, and Sri Lanka. The other five — Brunei Darussalam, Lesotho, Malaysia, Eswatini (formerly Swaziland) and Tonga — have their own monarchs.
- For the wider Commonwealth, the most visible uniting feature is the Commonwealth Games, the multi-sport international competition that is held every four years in one of the member countries.

7- (d)

- They are part insect and part machine.

8- (c)

**Que-1 With reference to Indo-Pacific Economic Framework (IPEF), consider the following statements about**

- 1- It is an economic initiative recently launched by United States President Joe Biden.
- 2- The framework launched with a total of forty participating founding member nations.
- 3- The Indo-Pacific Economic Framework is relied on four pillars namely tax, anti-corruption, clean energy and data and privacy.

Which of the following given above is/are correct

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

**Que-2 With reference to 'Taragiri', recently in News, consider the following statements**

- 1- It is the fifth ship of Project 17A Frigates.
- 2- This ship has been built using an integrated construction methodology which involves hull block construction in different geographical locations and integration and erection on the slipway at the Mazagon Dock Shipbuilders (MDL).
- 3- Named after a hill range in Western Ghat.

Which of the following given above is/are correct

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

**Que-3 Consider the following statements about a Project 17A Frigate**

- 1- P17A ships have been designed in-house by Indian Navy's Warship Design Bureau which is the pioneer organization for all warship design activities of the Nation.
- 2- Under the P17A program, a total of ten ships, with 06 at Mazagon Dock Shipbuilders (MDL) and 04 at Garden Reach Shipbuilders & Engineers Ltd (GRSE) are under construction.
- 3- Four P17A Project ships (two each at MDL and GRSE) have been launched so far between 2019 and 2022.

Which of the following given above is/are correct

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

**Que-4 With reference to Gulf Cooperation Council (GCC), consider the following statements**

- 1- The GCC is a regional, intergovernmental, political, and economic union.
- 2- It comprising Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, and the United Arab Emirates.
- 3- The council's main headquarters is located in Muscat, Oman.

Which of the following given above is/are correct

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

**Que-5 Consider the following statements about Avian influenza (H5N1)**

- 1- It is a type of influenza virus that causes a highly infectious, severe respiratory disease in birds called avian influenza (or "bird flu").
- 2- Human cases of H5N1 avian influenza occur occasionally, but it is very easily transmitted from person to person.
- 3- The mortality rate in humans is about 60%.

Which of the following given above is/are correct

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

- c) 1, 2 and 3      d) 2 and 3 only

**Que-6 With reference to Superbugs, consider the following statements**

- 1- Superbugs are resistant to multiple drugs and are increasingly resistant to most available antibiotics.
- 2- Superbugs, which are gram-negative bacteria, have built-in abilities to find new ways to be resistant and can pass along genetic materials that allow other bacteria to become drug-resistant as well.
- 3- Superbugs accounted for 73.3% of all blood infections cases and 53.1% of urinary tract infections (UTI) cases in Indian ICUs.

Which of the following given above is/are correct

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

**Que-7 Consider the following statements about Rabies**

- 1- Rabies is a disease that is caused by a family of viruses called the lyssaviruses and found in a range of mammals.
- 2- The virus targets the kidney and is nearly 100% fatal to the host animal if it succeeds in infecting it.
- 3- Though many animals from cats to crocodiles can be transmitters of the virus, it is most likely to spread to people from the



bite of an infected dog or a cat as they are the most common pets.

Which of the following given above is/are correct

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

**Que-8 Every five years, the nearly 200 member states of the Treaty on the Nonproliferation of Nuclear Weapons meet to review their progress — or lack thereof.**

**The treaty has three core missions:**

- 1- Preventing the spread of nuclear weapons to states that do not have them.
- 2- Ensuring civil nuclear energy programs do not turn into weapons programs.
- 3- Facilitating nuclear disarmament.

Which of the following given above is/are correct

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

## ANSWER

- 1- (b)
- The framework launched with a total of fourteen participating founding member nations, with the late entry of Fiji, the first South Pacific Island to join, with an open invitation for other countries to join at any time.

**The four themes of the proposed IPEF are:**

- Fair and resilient trade
- Supply chain resilience
- Infrastructure, clean energy, and decarbonization
- Tax and anti-corruption

2- (a)

- Named after a hill range in Himalayas located at Garhwal.

3- (b)

- The first ship of Project 17A, 'Nilgiri', was launched on September 28, 2019, and is expected for sea trials in the first half of 2024.
- The second ship of the 'Udaygiri' class under the project was launched on May 17 this year. It is expected to start sea trials during the second half of 2024.

- Under the P17A program, a total of seven ships, with 04 at Mazagon Dock Shipbuilders (MDL) and 03 at Garden Reach Shipbuilders & Engineers Ltd (GRSE) are under construction.

4- (a)

- India enjoys traditionally cordial relations and cooperation with the GCC.
- India's old, historical ties with the GCC states, coupled with increasing imports of oil and gas, growing trade and investment, and the presence of approximately 6.5 million Indian workers in the region, are of vital interest to India.
- The council's main headquarters is located in Riyadh, Saudi Arabia.

5- (b)

- Human cases of H5N1 avian influenza occur occasionally, but it is difficult to transmit the infection from person to person.

6- (c)

- Hospital-acquired infections (HAIs) is an infection that a patient gets due to an extended stay in the hospital – for instance, patients on ventilator for long periods, or urinary catheter.
- Superbugs accounted for 73.3% of all blood infections cases and 53.1% of

urinary tract infections (UTI) cases in Indian ICUs. The survey also observed that 38.1% of the patients with bloodstream infections and another 27.9 percent with UTIs died within a 14-day period. The study, however, added that HAIs were possibly a complication associated to the infection and not the direct cause of death.

- The presence of superbugs is an indicator of resistance to older antibiotics and the need for last-resort antibiotics such as carbapenem and colistin that are expensive.

7- (b)

- The virus targets the central nervous system and is nearly 100% fatal to the host animal if it succeeds in infecting it.

8- (c)

---

**Que-1 Consider the following statements about Citizenship Amendment Act, 2019**

1- It seeks to grant citizenship to a class of migrants belonging to Hindu, Muslim, Sikh, Buddhist, Jain, Parsi or Christian communities from Afghanistan, Bangladesh or Pakistan.

2- The law, an amendment to the Citizenship Act, 1955, was challenged before the Supreme Court under Article 32 of the Constitution.

3- The notification “does not provide for any relaxations to the foreigners and applies only to foreigners who have entered the country legally”.

Which of the following given above is/are correct

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

**Que-2 With reference to Indira Gandhi Urban Employment Guarantee Scheme, recently rolled out in Rajasthan, consider the following statements**

1- Objective of providing economic support to the poor and needy families living in the cities through work to be provided on demand for 100 days in a year.

2- Those in the age group of 25 to 60 years residing within the limits of urban local bodies are eligible to demand and get employment in the identified segments.

3- There is no income limit, though the poor and destitute people, especially those who lost their livelihood during the pandemic, will be given preference.

Which of the following given above is/are correct

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

**Que-3 Consider the following statements about F-16 fighter aircraft**

1- It is a single-engine multirole fighter aircraft originally developed by General Dynamics for the Russia.

2- It is highly maneuverable and has proven itself in air-to-air combat and air-to-surface attack.

3- It provides a relatively low-cost, high-performance weapon system for the United States and allied nations.

Which of the following given above is/are correct

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

**Que-4 Consider the following statements about World Physical Therapy (PT) Day**

- 1- It is observed globally on September every year in order to raise awareness about the contribution of physiotherapists in healthcare and encourage people to be physically active and ensure good overall health.
- 2- This year, the theme of 'Osteoarthritis' will be followed.
- 3- The day was first observed on 2020.

Which of the following given above is/are correct

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

**Que-5 What is Osteoarthritis?**

- 1- It occurs when the protective cartilage that cushions the ends of the bones wears down over time.
- 2- Although osteoarthritis can damage any joint, the disorder most commonly affects joints in hands, knees, hips and spine.
- 3- Osteoarthritis is the most common form of arthritis.

Which of the following given above is/are correct

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

**Que-6 Consider the following statements about Parliament of the World's Religions**

- 1- The first being the World's Parliament of Religions of 1893, which was an attempt to create a global dialogue of faiths.
- 2- The Parliament is headquartered in Toronto, led by a board of trustees elected from various faiths.
- 3- It was on 11th September in 1893 that Swami Vivekananda delivered one of his most outstanding speeches in Parliament of the World's Religions.

Which of the following given above is/are correct

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

**Que-7 Consider the following statements about Vinoba Bhave**

- 1- He was an Indian advocate of nonviolence and human rights.
- 2- Often called Acharya (Sanskrit for teacher), he is best known for the Non-Cooperation Movement.
- 3- He is considered a National Teacher of India and the spiritual successor of Mahatma Gandhi.

Which of the following given above is/are correct



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

**ANSWER**

**Que-8 Consider the following statements about 'Faustian bargain'**

1- A pact where someone trades something of supreme moral and spiritual value to them, a core principle which defines their essential being, in return for power, knowledge, or wealth.

2- The idea comes from the German legend of Johann Georg Faust who sold his soul to the devil for unlimited knowledge and worldly pleasures.

Which of the following given above is/are correct

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

1- (d)

- It seeks to grant citizenship to a class of migrants belonging to Hindu, Sikh, Buddhist, Jain, Parsi or Christian communities from Afghanistan, Bangladesh or Pakistan.
- The challenge rests primarily on the grounds that the law violates Article 14 of the Constitution that guarantees that no person shall be denied the right to equality before law or the equal protection of law in the territory of India.
- The Supreme Court has developed a two-pronged test to examine a law on the grounds of Article 14. First, any differentiation between groups of persons must be founded on "intelligible differentia"; and second, "that differentia must have a rational nexus to the object sought to be achieved by the Act".
- Simply put, for a law to satisfy the conditions under Article 14, it has to first create a "reasonable class" of subjects that it seeks to govern under the law. Even if the classification is reasonable, any person who falls in that category has to be treated alike.
- Those challenging the law argue that if protecting persecuted minorities is

ostensibly the objective of the law, then the exclusion of some countries and using religion as a yardstick may fall foul of the test.

- Further, granting citizenship on the grounds of religion is seen to be against the secular nature of the Constitution which has been recognised as part of the basic structure that cannot be altered by Parliament.

2- (b)

- Those in the age group of 18 to 60 years residing within the limits of urban local bodies are eligible to demand and get employment in the identified segments.
- The country's biggest scheme to give guaranteed jobs to the people residing in cities, on the lines of the Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA) for villagers.
- There is no income limit, though the poor and destitute people, especially those who lost their livelihood during the pandemic, will be given preference.
- The tasks to be carried out under the scheme have been clubbed mainly under eight heads. The first is environment protection, which will

involve tree plantation at public places, maintenance of parks and watering plants on footpaths and dividers. The next is water conservation, where the tasks may be allotted for cleanliness and improvement of ponds, lakes and stepwells, construction, repair and cleaning of rain water harvesting structures and restoration of water sources. Other categories are heritage conservation, removal of encroachments and illegal boards, hoardings and banners, stopping defacement of property and service-related works.

3- (d)

- In 1993, General Dynamics sold its aircraft manufacturing business to the Lockheed Corporation, which in turn became part of Lockheed Martin after a 1995 merger with Martin Marietta.
- It is a single-engine multirole fighter aircraft originally developed by General Dynamics for the United States Air Force (USAF).

4- (a)

- The day was first observed on 8 September 1996.
- It is observed globally on September 8 every year in order to raise awareness about the contribution of

physiotherapists in healthcare and encourage people to be physically active and ensure good overall health.

5- (c)

6- (b)

- The Parliament of the World's Religions was incorporated in 1989 to organize the centennial conference of the first Parliament.
- The Parliament is headquartered in Chicago, led by a board of trustees elected from various faiths.

7- (b)

- He was an eminent philosopher. The Gita has also been translated into Marathi language by him with the title Geetai (meaning 'Mother Gīta' in Marathi).
- Vinayak Narahari Bhave was born on 11 September 1895 in a small village called Gagoji (present day Gagode Budruk) in Kolaba in the Konkan region of what is now Maharashtra. Vinayaka was the eldest son of Narahari Shambhu Rao and Rukmini Devi.
- Often called Acharya (Sanskrit for teacher), he is best known for the Bhoodan Movement.

8- (c)

- In contrast to the Faustian bargain, some politicians prefer not to make compromises believing that it is better to take public positions that are consistent with one's values rather than adopt a utilitarian calculus of compromise with evil for a future good. Gandhiji entered into no Faustian bargain. Nor did Nelson Mandela or Jawaharlal Nehru or Rabindranath Tagore. Babasaheb Ambedkar resigned when he felt Nehru had undermined his position as the Law Minister on the Hindu Code Bill which he wanted to be discussed. His resignation speech is an artistic statement of the principled position.

**Que-1 What is the 103rd Amendment?**

1- The 103rd Amendment inserted Articles 15(6) and 16(6) in the Constitution.

2- It provide up to 15 per cent reservation to EWS other than backward classes, SCs, and STs in higher educational institutions and initial recruitment in government jobs.

3- The amendment empowered state governments to provide reservation on the basis of economic backwardness.

Which of the following given above is/are correct

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

**Que-2 What is CPI-Based Inflation or Retail Inflation?**

1- The CPI monitors retail prices at a certain level for a particular commodity; price movement of goods and services at rural, urban and all-India levels.

2- Generally, CPI is used as a macroeconomic indicator of inflation, as a tool by the central bank and government for inflation targeting and for inspecting price stability, and as deflator in the national accounts.

3- CPI also helps understand the real value of salaries, wages, and pensions, the

purchasing power of the nation's currency, and regulating rates.

Which of the following given above is/are correct

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

**Que-3 Consider the following statements about Pradhan Mantri Matsya Sampada Yojana (PMMSY)**

1- The main motto of PMMSY is 'Reform, Perform and Transform' in the fisheries sector.

2- PMMSY will be implemented in all the States and Union Territories for a period of 10 years from FY 2020-21 to FY 2029-30.

3- This has been approved at a total estimated investment of Rs. 20,050 crores comprising of Central share of Rs. 9407 crores, State share of Rs 4880 crores and Beneficiaries contribution of Rs. 5763 crores.

Which of the following given above is/are correct

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



**Que-4 With reference to Hydrogen, consider the following statements**

1- Hydrogen is a clean fuel that, when consumed in a fuel cell, produces oxygen and water.

2- Hydrogen can be produced from a variety of domestic resources, such as natural gas, nuclear power, biomass, and renewable power like solar and wind.

3- 96 per cent of hydrogen today is made directly from fossil fuels – mostly natural gas, followed by coal and then oil.

Which of the following given above is/are correct

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

**Que-5 Consider the following statements about United Nations Human Rights Council (UNHRC)**

1- The UNHRC is defined as an inter-governmental body within the United Nations system, which is responsible for the promotion and protection of all human rights around the globe.

2- The Council also investigates allegations of breaches of human rights in United Nations member states and addresses thematic human rights issues.

3- To suspend a member, one needs a more than half majority vote by the General Assembly.

Which of the following given above is/are correct

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

**Que-6 Consider the following statements about Serious Fraud Investigation Office (SFIO)**

1- SFIO is a multi-disciplinary organization under Ministry of Corporate Affairs.

2- It consists of experts in the field of accountancy, forensic auditing, law, information technology, investigation, company law, capital market and taxation for detecting and prosecuting or recommending for prosecution white-collar crimes/frauds.

3- Based on the recommendation of Narsimha Committee on corporate governance.

Which of the following given above is/are correct

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

**Que-7 With reference to Government's health expenditure, consider the following statements about**

1- The government's health expenditure as a percentage of the GDP fell from 1.35 in 2017-18 to 1.28 in the next year.

2- While the Centre's share in the total government health expenditure fell to 34.3 per cent in 2018-19, from 40.8 per cent in the previous year, the states' share during the same period rose from 59.2 per cent to 65.7 per cent.

3- The total health expenditure constitutes current and capital expenditures incurred only by government.

Which of the following given above is/are correct

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

**Que-8 Consider the following statements about Group of 7 (G7)**

1- The Group of 7 (G7) is an informal group of seven countries — the United States, Canada, France, Germany, Italy, Japan and the United Kingdom.

2- Together the member countries represent 40% of global GDP and 10% of the world's population.

3- Like other bodies such as NATO, the G7 also has legal existence, permanent secretariat or official members.

Which of the following given above is/are correct

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

**ANSWER**

1- (b)

- It provide up to 10 per cent reservation to EWS other than backward classes, SCs, and STs in higher educational institutions and initial recruitment in government jobs.
- Article 15 prohibits discrimination on grounds of religion, race, caste, sex, or place of birth. Article 16 guarantees equal opportunity in matters of public employment. The additional clauses gave Parliament the power to make special laws for EWS like it does for SCs, STs, and OBCs.
- The EWS reservation was granted based on the recommendations of a commission headed by Major General (ret'd) S R Sinho. The commission, which was constituted by the UPA government in March 2005, submitted its report in July 2010.

- The Sinho Commission recommended that all below-poverty-line (BPL) families within the general category as notified from time to time, and also all families whose annual family income from all sources is below the taxable limit, should be identified as EBCs (economically backward classes).

2- (c)

- Generally, CPI is used as a macroeconomic indicator of inflation, as a tool by the central bank and government for inflation targeting and for inspecting price stability, and as deflator in the national accounts.
- CPI also helps understand the real value of salaries, wages, and pensions, the purchasing power of the nation's currency, and regulating rates. CPI, one of the most important statistics to ascertain economic health, is generally based on the weighted average of the prices of commodities. It basically gives an idea of the cost of the standard of living.
- Simply put, CPI specifically identifies periods of deflation or inflation for consumers in their day-to-day living expenses. If there is inflation (when goods and services cost more) the CPI will rise over a period of time. If the CPI drops, that means there is deflation, or a steady reduction in the prices of goods and services.

3- (b)

- PMMSY will be implemented in all the States and Union Territories for a period of 5 (five) years from FY 2020-21 to FY 2024-25.
- The Pradhan Mantri Matsya Sampada Yojana. (PMMSY) is designed to address critical gaps in fish production and productivity, quality, technology, post-harvest infrastructure and management, modernisation and strengthening of value chain, traceability, establishing a robust fisheries management framework and fishers' welfare.
- The PMMSY is an umbrella scheme with two separate Components namely (a) Central Sector Scheme (CS) and (b) Centrally Sponsored Scheme (CSS).
- The Centrally Sponsored Scheme (CSS) Component is further segregated into Non-beneficiary oriented and beneficiary orientated subcomponents/activities under the following three broad heads:
  - Enhancement of Production and Productivity
  - Infrastructure and Post-harvest Management
  - Fisheries Management and Regulatory Framework



4- (d)

- Hydrogen is a clean fuel that, when consumed in a fuel cell, produces only water.
- Hydrogen acts as a chemical energy carrier, rather like oil or gas, that can be piped or transported to where it is needed. It stores three times as much energy per unit of mass as conventional petrol, and when it “burns” in air – releasing that stored energy – it simply combines with oxygen to produce water again.

5- (a)

- As per the rules, the UNGA can suspend the rights and privileges of any Council member that it decides has persistently committed gross and systematic violations of human rights during its term of membership.
- To suspend a member, one needs a two-thirds majority vote by the General Assembly.

6- (a)

- The Serious Fraud Investigation Office (SFIO) is a statutory corporate fraud investigating agency in India. Initially, it was set up by a resolution adopted by the Government of India on 2 July 2003 and carried out investigations within the existing legal framework under section 235 to 247 of the

erstwhile Companies Act, 1956. Later, Section 211 of the Companies Act, 2013, accorded the statutory status to the Serious Fraud Investigation Office (SFIO).

- Based on the recommendation of Naresh Chandra Committee on corporate governance (which was set up by the Government on 21 August 2002) and in the backdrop of stock market scams as also the failure of non-banking companies resulting in huge financial loss to the public, Vajpayee Government decided to set up SFIO on 9 January 2003.

7- (a)

- The total health expenditure constitutes current and capital expenditures incurred by government and private sources, including external funds.
- The Centre's share in the total government health expenditure fell to 34.3 per cent in 2018-19, from 40.8 per cent in the previous year, the states' share during the same period rose from 59.2 per cent to 65.7 per cent, the latest national health estimates showed.
- In the same period, the out-of-pocket expenditure as a percentage of the total health expenditure also fell from 48.8 to 48.2.



- However, when compared with the figures of 2013-14, the out-of-pocket expenditure on health decreased substantially by 16 percentage points from 64.2 per cent.
- Out-of-pocket expenditures are expenditures directly made by households at the point of receiving healthcare. This indicates the extent of financial protection available for households towards healthcare payments.

8- (a)

- Unlike other bodies such as NATO, the G7 has no legal existence, permanent secretariat or official members.
-

**Que-1 With reference to Annabhau Sathe, consider the following statements**

1- He was a social reformer, actor, folk poet, and Dalit writer.

2- He is widely regarded as the Father of Dalit literature and has contributed extensively to the Ambedkarite movement.

3- He participated in the freedom struggle and the Samyukta Maharashtra movement and was prominent in the Indian People's Theatre Association.

Which of the following given above is/are correct

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

**Que-2 Consider the following statements about National List of Essential Medicines (NLEM)**

1- "Essential medicines" are those that satisfy the priority health care needs, based on efficacy, safety, quality and total cost of the treatment.

2- The primary purpose of NLEM is to promote rational use of medicines considering the three important aspects i.e., cost, safety and efficacy.

3- In NLEM, the medicines are categorized based on level of healthcare system as- P- Primary; S- Secondary and T- Tertiary.

Which of the following given above is/are correct

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

**Que-3 With reference to Board of Trade, meeting recently held, consider the following statements**

1- The Board of Trade meeting focused on export target setting, the new Foreign Trade Policy (FTP), and the strategies and measures to be taken in order to take forward domestic manufacturing and exports.

2- Board of Trade (BOT) has been constituted by merging Council for Trade Development and Promotion with Council of Export Promotion.

3- The Board of Trade, inter alia, advises the Government on policy measures connected with the Foreign Trade Policy in order to achieve the objectives of boosting India's trade.

Which of the following given above is/are correct

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

**Que-4 Consider the following statements about Digital Infrastructure Providers Association (DIPA)**

1- Digital Infrastructure Providers Association (Erstwhile Tower and Infrastructure Providers Association) was constituted in 2010 as an industry representative body registered under the Companies Act, 1954.

2- This represents the India's digital infrastructure industry that develop, build, own and operate the nation's wireless infrastructure.

3- The association is dedicated to interact, discuss and deliberate with Indian Government Ministries, Policy Makers, Regulators, Financial institutions, and technical bodies etc. for the knowledge collection & dissemination for promotion of healthy growth in telecom services.

Which of the following given above is/are correct

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

**Que-5 With reference to Exercise Kakadu, consider the following statements**

1- Held Between India and Australia.

2- Hosted by the Royal Australian Navy in Darwin.

3- The two week-long exercise, both in harbour and sea, involves ships and maritime aircraft.

Which of the following given above is/are correct

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

**Que-6 Consider the following statements about JIMEX 22**

1- Japan-India Maritime Bilateral Exercise.

2- Hosted by Indian Navy, in the Bay of Bengal.

3- Every year this exercise held in India only.

Which of the following given above is/are correct

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

**Que-7 What is a windfall tax?**

1- Windfall taxes are designed to tax the profits a company derives from an external, sometimes unprecedented event.

2- These are profits that cannot be attributed to something the firm actively did, like an investment strategy or an expansion of business.

3- One area where such taxes have routinely been discussed is oil markets, where price fluctuation leads to volatile or erratic profits for the industry.

Which of the following given above is/are correct

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

**Que-8 With reference to NITI Aayog, consider the following statements**

1- Abbreviation for National Institution for Transforming India.

2- It serves as the apex public policy think tank of the Government of India, and the nodal agency tasked with catalyzing economic development, and fostering cooperative federalism through the involvement of State Governments of India in the economic policy-making process using a bottom-up approach.

3- The NITI Aayog council comprises all the state Chief Ministers, along with the

Chief Ministers of Delhi and Puducherry, Lieutenant Governors of all UTs, and a vice-chairman nominated by the President of India.

Which of the following given above is/are correct

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

**ANSWER**

1- (c)

- Sathe's family left the village in 1930 and came to Mumbai.
- It was here that Sathe worked as a porter, a hawker and even a cotton mill helper.
- In 1934, Sathe participated in a workers' strike under the leadership of Lal Bawta Mill Workers Union.
- It was during his days at the Matunga Labour Camp that Sathe got to know RB More, an associate of Dr Babasaheb Ambedkar in the famous 'Chavdar Lake' satyagraha at Mahad, and joined the labour study circle.
- It was here that he learned to read and write.
- Sathe penned his first poem on the menace of mosquitoes in the labour camp.



- In 1939, Sathé wrote his first ballad 'Spanish Povada'.
- Sathé's work was greatly inspired by the Russian revolution and the Communist ideology.
- He was a member of the Communist Party of India (CPI).
- Sathé is also regarded as the 'Maxim Gorky' of Indian literature, and he was the first Indian whose books including Powada of Stalingrad and My Journey to Russia were prescribed in Russian universities.
- recommended under National Health Programs of India. (e.g. Ivermectin part of Accelerated Plan for Elimination of Lymphatic Filariasis 2018).
- when more than one medicine are available from the same therapeutic class, one prototype/ medically best suited medicine of that class to be included.

2- (c)

- The National List of Essential Medicines was first formulated in 1996 and it was revised thrice earlier in 2003, 2011, and 2015.
- price of total treatment is considered and not the unit price of a medicine
- fixed dose combinations are usually not included
- vaccines as and when are included in Universal Immunization Program (e.g. Rotavirus vaccine).

3- (b)

**The following criteria are followed for inclusion in NLEM:**

- be useful in diseases which is a public health problem in India
- be licensed/ approved Drugs Controller General (India) (DCGI)
- have proven efficacy and safety profile based on scientific evidence
- be comparatively cost effective
- be aligned with the current treatment guidelines
- Board of Trade (BOT) has been constituted by merging Council for Trade Development and Promotion with Board of Trade.

4- (d)

- Digital Infrastructure Providers Association (Erstwhile Tower and Infrastructure Providers Association) was constituted in 2010 as an industry representative body registered under the Indian Society Registration Act, 1860.

- 5- (d)
- Its a Multinational Naval Exercise.
- 6- (a)
- JIMEX 22 involves two Phases; exercises at sea and a harbour phase at Visakhapatnam.
- 7- (c)
- Windfall taxes are designed to tax the profits a company derives from an external, sometimes unprecedented event— for instance, the energy price-rise as a result of the Russia-Ukraine conflict.
  - These are profits that cannot be attributed to something the firm actively did, like an investment strategy or an expansion of business. The United States Congressional Research Service (CRS) defines a windfall as an “unearned, unanticipated gain in income through no additional effort or expense”.
  - Governments typically levy a one-off tax retrospectively over and above the normal rates of tax on such profits, called windfall tax. One area where such taxes have routinely been discussed is oil markets, where price fluctuation leads to volatile or erratic profits for the industry.
- 8- (a)
- It was established in 2015, to replace the Planning Commission which followed a top-down model.
  - The NITI Aayog council comprises all the state Chief Ministers, along with the Chief Ministers of Delhi and Puducherry, Lieutenant Governors of all UTs, and a vice-chairman nominated by the Prime Minister. In addition, temporary members are selected from leading universities and research institutions. These members include a chief executive officer, four ex-official members, and two part-time members.

**Que-1 With reference to Shoonya Campaign, recently commemorate the one-year anniversary, consider the following statements**

- 1- India's zero pollution e-mobility campaign.
- 2- Shoonya is a consumer awareness campaign to reduce air pollution by promoting the use of electric vehicles (EVs) for ride-hailing and deliveries.
- 3- Shoonya can lead to dramatic emission reductions in the transport sector, supporting India's five-point agenda (Panchamrit), announced at COP 26, to reduce carbon emissions and secure its 2040 climate goals.

Which of the following given above is/are correct

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

**Que-2 With reference to National Sports Development Fund (NSDF), consider the following statements**

- 1- This was established in 1998 under the Societies Registration Act, 1860 and was notified by the Government of India in November, 1998.
- 2- The purpose of the fund is to impart momentum and flexibility to assisting the cause of sports in India.

- 3- It helps sportspersons excel by providing them with varied opportunities to train under coaches of international repute, provide financial assistance for development of infrastructure and other activities for promotion of sports.

Which of the following given above is/are correct

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

**Que-3 Consider the following statements about Index of Industrial Production (IIP)**

- 1- This is an index for India which details out the growth of various sectors in an economy such as mineral mining, electricity and manufacturing.
- 2- The current base year is 2015-2016.
- 3- It is compiled and published monthly by the Central Statistical Office (CSO), Ministry of Statistics and Programme Implementation six weeks after the reference month ends.

Which of the following given above is/are correct

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

**Que-4 The Union Cabinet had recently approved the inclusion of tribes of five states in the Scheduled Tribes (ST) category. Among the states whose tribes have been included in the list are**

- 1- Chhattisgarh
- 2- Madhya Pradesh
- 3- Maharashtra

Which of the following given above is/are correct

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

**Que-5 Consider the following statements about Engineer's Day**

- 1- Every year India celebrates National Engineer's day on September 15 to recognise and honour the achievements of the great engineer Mokshagundam Visvesvaraya.
- 2- Along with India, Visvesvaraya's great works are also celebrated in Sri Lanka and Pakistan on September 15 as Engineer's day.
- 3- He patented and installed an irrigation system with water floodgates at the Khadakvasla reservoir near Pune to raise the food supply level and storage to the highest levels known as 'block system' in 1903.

Which of the following given above is/are correct

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

**Que-6 Consider the following statements about G20 Summit**

- 1- India will host the G-20 leaders' summit in New Delhi in 2025.
- 2- Since 2011, the G20 summit has been held annually, under a rotating presidency.
- 3- The G20, or Group of Twenty, is an intergovernmental forum of the world's major developed and developing economies.

Which of the following given above is/are correct

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

**Que-7 With reference to The CRISPR technology, consider the following statements**

- 1- CRISPR is short for Clustered Regularly Interspaced Short Palindromic Repeats.
- 2- This is a reference to the clustered and repetitive sequences of DNA found in bacteria, whose natural mechanism to fight some viral diseases is replicated in this gene-editing tool.
- 3- CRISPR technology is simple, and still far more accurate — and it does not



involve the introduction of any new gene from the outside.

Which of the following given above is/are correct

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

**Que-8 Consider the following statements about Geographical Indication (GI)**

1- A geographical indication (GI) is a sign used on products that have a specific geographical origin and possess qualities or a reputation that are due to that origin.

2- In order to function as a GI, a sign must identify a product as originating in a given place.

3- A geographical indication may also highlight specific qualities of a product that are due to human factors found in the product's place of origin, such as specific manufacturing skills and traditions.

Which of the following given above is/are correct

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

## ANSWER

1- (a)

### About Shoonya:

- Rapid global urbanization and e-commerce sales are driving significant growth in urban freight and mobility demand. In India, these sectors are expected to grow at a CAGR of 8% through 2030. If this demand is met by internal combustion vehicles (ICE), it would significantly increase local air pollution, carbon emissions, and lead to adverse public health effects. EVs offer an opportunity to address these challenges. Compared to ICE vehicles, EVs do not emit PM or NOx emissions at the tailpipe; they release 60% less CO2 and have 75% lower operating costs. Shoonya supplements existing national and sub-national EV policies as well as corporate efforts in India by creating consumer awareness and demand for zero pollution rides and deliveries in Indian cities.
- Till April 2022, the estimated number of electric deliveries and rides completed by corporate partners via the Shoonya campaign was close to 20 million and 15 million, respectively. This translates to a carbon dioxide emission savings of over 13,000 tonnes.

- If all final-mile deliveries and rides in India were shoonya, India would be well on its way to improving air quality, reducing public health costs, enhancing energy security, and achieving its climate targets. The electrification of the ride-hailing and delivery sector in India could mitigate close to 54 MT of CO<sub>2</sub> emissions, 16,800 tonnes of PM emissions, and 537,000 tonnes of NO<sub>x</sub> pollution, saving roughly 5.7 lakh crore in expenditures over a year. Thus, Shoonya can lead to dramatic emission reductions in the transport sector, supporting India's five-point agenda (Panchamrit), announced at COP 26, to reduce carbon emissions and secure its 2070 climate goals.
- 2- (d)
- This was established in 1998 under the Charitable Endowments Act 1890 and was notified by the Government of India in November, 1998.
- 3- (b)
- The all India IIP is a composite indicator that measures the short-term changes in the volume of production of a basket of industrial products during a given period with respect to that in a chosen base period.
- The level of the Index of Industrial Production (IIP) is an abstract number, the magnitude of which represents the status of production in the industrial sector for a given period of time as compared to a reference period of time. The base year was at one time fixed at 1993–94 so that year was assigned an index level of 100. The current base year is 2011-2012.
- The Eight Core Industries comprise nearly 40.27% of the weight of items included in the Index of Industrial Production (IIP). These are Electricity, steel, refinery products, crude oil, coal, cement, natural gas and fertilisers.
- 4- (a)
- Among the states whose tribes have been included in the list are Chhattisgarh, Himachal Pradesh, Tamil Nadu, Karnataka, and Uttar Pradesh.
  - The Hattee community of Himachal Pradesh's Sirmaur district was granted the status of ST.
  - Inclusion of 'Gonds' along with its five sub-castes in the Bhadohi (earlier Sant Ravidas Nagar) District of the State of Uttar Pradesh in the Scheduled Tribes list of Uttar Pradesh.
  - Inclusion of 'Narikoravan along with the Kurivikkaran' community in

respect of the State of Tamil Nadu through the introduction of a Bill in Parliament to amend the Constitution (Scheduled Tribes) Order, 1950.

- Inclusion of the 'Betta-Kuruba' community as a synonym of 'Kadu Kuruba' in respect of the State of Karnataka.

5- (b)

- Along with India, Visvesvaraya's great works are also celebrated in Sri Lanka and Tanzania on September 15 as Engineer's day.
- Every year India celebrates National Engineer's day on September 15 to recognise and honour the achievements of the great engineer Mokshagundam Visvesvaraya. Along with India, Visvesvaraya's great works are also celebrated in Sri Lanka and Tanzania on September 15 as Engineer's day. Popularly known as Sir MV, he undertook several complex projects and delivered remarkable infrastructural results during his engineering career. He patented and installed an irrigation system with water floodgates at the Khadakvasla reservoir near Pune to raise the food supply level and storage to the highest levels known as 'block system' in 1903.

- The irrigation system was later installed at Gwalior's Tigma Dam and Mysuru's Krishnaraja Sagara (KRS) dam, the latter of which created one of the largest reservoirs in Asia at the time. Apart from his contributions in the field of engineering, he was also called the "precursor of economic planning in India", according to the Institution of Engineers India (IEI). His books, "Reconstructing India" and "Planned Economy of India" were published in 1920 and 1934, respectively. He was awarded knight in 1915 while serving as the Diwan of Mysore, and received Bharat Ratna in 1955.

6- (d)

- India will host the G-20 leaders' summit in New Delhi in 2023.
- The G20, or Group of Twenty, is an intergovernmental forum of the world's major developed and developing economies. It comprises 19 countries—Argentina, Australia, Brazil, Canada, China, France, Germany, India, Indonesia, Italy, Japan, Republic of Korea, Mexico, Russia, Saudi Arabia, South Africa, Turkey, the UK, and the US—and the European Union (EU).
- Collectively, the G20 accounts for 85 per cent of global GDP, 75 per cent of international trade and two-thirds of



the world population, making it the premier forum for international economic cooperation. India is currently part of the G20 Troika (current, previous and incoming G20 Presidencies) comprising Indonesia, Italy and India.

7- (c)

The CRISPR technology

- CRISPR is short for Clustered Regularly Interspaced Short Palindromic Repeats, which is a reference to the clustered and repetitive sequences of DNA found in bacteria, whose natural mechanism to fight some viral diseases is replicated in this gene-editing tool.
- Editing, or modification, of gene sequences to eliminate — or introduce — specific properties in an organism is not a new development. It has been happening for several decades now, particularly in the field of agriculture, where genetically modified variants, with specific desirable traits, are regularly developed. It usually involves the introduction of a new gene, or suppression of an existing gene, through a process described as genetic engineering.
- CRISPR technology is different. It is simple, and still far more accurate —

and it does not involve the introduction of any new gene from the outside. Its mechanism is often compared to the 'cut-copy-paste', or 'find-replace' functionalities in common computer programmes. A bad stretch in the DNA sequence, which is the cause of disease or disorder, is located, cut, and removed — and then replaced with a 'correct' sequence. And the tools used to achieve this are not mechanical, but biochemical — specific protein and RNA molecules.

- The technology replicates a natural defence mechanism in some bacteria that uses a similar method to protect itself from virus attacks.

8- (c)

- Article 22.1 of the TRIPS Agreement defines geographical indications as "...indications which identify a good as originating in the territory of a Member [of the World Trade Organization], or a region or locality in that territory, where a given quality, reputation or other characteristic of the good is essentially attributable to its geographical origin."



**Que-1 With reference to Audit Bureau of Circulations (ABC), consider the following statements**

- 1- It is a non-profit circulation-auditing organisation.
- 2- It certifies and audits the circulations of major publications, including newspapers and magazines in India.
- 3- ABC is a voluntary organisation initiated in 1991 that operates in different parts of the world.

Which of the following given above is/are correct

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

**Que-2 What are El Nino and La Nina?**

- 1- La Nina and El Nino, which mean 'the boy' and 'the girl' respectively in Spanish, are mutually opposite phenomena.
- 2- During this phenomena an abnormal warming or cooling of sea surface temperatures is observed in the Pacific Ocean along the equator, off the coast of South America.
- 3- Together they constitute what is known as the El Niño-Southern Oscillation system, or ENSO for short.

Which of the following given above is/are correct

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

**Que-3 With reference to La Nina, consider the following statements**

- 1- La Nina years are known to favour the Indian summer monsoon.
- 2- Less hurricanes and cyclones occurred in the Atlantic Ocean and the Bay of Bengal during La Nina years.

Which of the following given above is/are correct

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

**Que-4 With reference to Pradhan Mantri Awas Yojana (PMAY) (Gramin), consider the following statements**

- 1- Under PMAY, the cost of unit assistance is to be shared between Central and State Governments in the ratio 50:50 in plain areas and 90:10 for North Eastern and hilly states.
- 2- The overall target is to construct 2.95 crore pucca houses with basic amenities by March, 2024.
- 3- To provide pucca house to all who are houseless and living in dilapidated houses in rural areas.

Which of the following given above is/are correct

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

**Que-5 Consider the following statements about Damodaran committee, recently in News**

- 1- Constituted by Ministry of Corporate Affairs (MCA).  
2- To examine and suggest appropriate measures to address regulatory issues to scale up investments by venture capital (VC) and private equity (PE).  
3- Finance minister in her FY23 budget had proposed to set up the committee.

Which of the following given above is/are correct

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

**Que-6 What is Venture Capital (VC)?**

- 1- Venture Capital is a financing tool for companies and an investment vehicle for wealthy individuals and institutional investors.  
2- Venture Capitals tend to focus on emerging companies and such investments are risky as they are illiquid, but also have the potential to provide impressive returns if invested in the right venture.

- 3- Wealthy investors like to invest their capital in startups with a long-term growth perspective.

Which of the following given above is/are correct

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

**Que-7 Consider the following statements about Financial Stability and Development Council (FSDC)**

- 1- The idea to create such a super regulatory body was first mooted by the Raghuram Rajan Committee in 2008.  
2- The Prime Minister of India is its Chairman.  
3- An apex-level FSDC is not a statutory body.

Which of the following given above is/are correct

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

**Que-8 The leaders of the Shanghai Cooperation Organisation (SCO) had recently which of the Indian city for the grouping for the year 2022-23**

- a) New Delhi
- b) Varanasi
- c) Hyderabad
- d) Ahmedabad

### ANSWER

1- (a)

- ABC is a voluntary organisation initiated in 1948 that operates in different parts of the world. Until 1948, the concept of circulation audit was yet to be made in India and the publishers had no means to verify the actual circulation number of publications that they used for advertising and had to depend more on their own judgement.
- Publishers also found it difficult to convince advertisers of the relative values of their publication for the purpose of advertising. It is with this background that eminent representatives of the advertising profession and publishing industry came together to establish an organisation which could serve the common interest. Since then, the benefit of ABC certificates of

circulation have been availed by advertisers, advertising agencies, publishers and organisations connected with print media advertising.

2- (d)

- El Nino and La Nina, which mean 'the boy' and 'the girl' in Spanish, are mutually opposite phenomena, during which an abnormal warming or cooling of sea surface temperatures is observed in the Pacific Ocean along the equator, off the coast of South America. Together they constitute what is known as the El Niño-Southern Oscillation system, or ENSO for short.
- ENSO conditions can alter both temperatures and rainfall globally, due to their strong interference on global atmospheric circulations.
- It is a recurring phenomenon and the change in temperature is accompanied by changes in the patterns of upper and lower level winds, sea level pressure, and tropical rainfall across the Pacific Basin.
- Normally, El Nino and La Nina occur every four to five years. El Nino is more frequent than La Nina.

3- (a)

- Intense hurricanes and cyclones have frequently occurred in the Atlantic

Ocean and the Bay of Bengal during La Nina years.

- Over the North Indian Ocean as well, the chances of an increased number of cyclones are due to multiple contributing factors, including high relative moisture and relatively low wind shear over the Bay of Bengal.
- The post-monsoon months, from October to December, are the most active months for cyclonic developments over the North Indian Ocean, with November as the peak for cyclonic activity.

4- (d)

- Under PMAY, the cost of unit assistance is to be shared between Central and State Governments in the ratio 60:40 in plain areas and 90:10 for North Eastern and hilly states.
- The unit assistance given to beneficiaries under the programme is Rs 1,20,000 in plain areas and to Rs 1,30,000 in hilly states/difficult areas /Integrated Action Plan (IAP) for Selected Tribal and Backward Districts. Additional assistance of Rs.12,000/- is extended for construction of toilets through convergence with Swachh Bharat Mission – Gramin (SBM-G), Mahatma Gandhi National Rural Employment

Guarantee Scheme (MGNREGS) or any other dedicated source of funding.

- The beneficiary is entitled to 90/95 days of unskilled labour from MGNREGA.
- The beneficiary would be facilitated to avail loan of up to Rs.70,000/- for construction of the house which is optional.
- Funds will be transferred electronically directly to the account of the beneficiary.

5- (d)

- Constituted by Finance Ministry.
- “Venture Capital and Private Equity invested more than Rs 5.5 lakh crore last year facilitating one of the largest start-up and growth ecosystem. Scaling up this investment requires a holistic examination of regulatory and other frictions. An expert committee will be set up to examine and suggest appropriate measures,” she had said in her Budget speech.
- The terms of reference of the committee include comprehensive study the end to end frictions and potential accelerants from regulatory policy and taxation to facilitate ease of investing, as well as to encourage investments in India; review issues, compliances and suggest



simplifications and changes around further accelerating the growth of alternative capital to participate in the VC/PE industry; suggest measures to further accelerate investments into start-ups and sunrise sectors; suggest forward looking measures and future ready regulatory practices in addition to studying and emulating global best practices.

Kazakhstan, Tajikistan and Uzbekistan.

- Over the years, it has emerged as one of the largest trans-regional international organisations. India and Pakistan became its permanent members in 2017.

6- (c)

- It is a way for companies to receive money in the short term and for investors to grow wealth in the long term.

7- (b)

- In 2010, the then Finance Minister of India, Pranab Mukherjee, decided to set up such an autonomous body dealing with macro prudential and financial regularities in the entire financial sector of India.
- The Union Finance Minister of India is its Chairman.

8- (b)

- Uzbekistan handed over the rotating presidency of the grouping to India for the year 2022-23.
- The SCO was founded at a summit in Shanghai in 2001 by the presidents of Russia, China, the Kyrgyz Republic,

**Que-1 With reference to INSPIRE Awards - MANAK (Million Minds Augmenting National Aspirations and Knowledge), consider the following statements about**

1- 'Innovation in Science Pursuit for Inspired Research' (INSPIRE) scheme is one of the flagship programmes of Department of Science & Technology (DST).

2- Aims to motivate students in the age group of 10-20 years and studying in classes 6 to 12.

3- The objective of the scheme is to target one million original ideas/innovations rooted in science and societal applications to foster a culture of creativity and innovative thinking among school children.

Which of the following given above is/are correct

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

**Que-2 Consider the following statements about International Treaty on Plant Genetic Resources for Food and Agriculture (also known as ITPGRFA, International Seed Treaty or Plant Treaty)**

1- It is a comprehensive international agreement in harmony with the Convention on Biological Diversity.

2- Its aims at guaranteeing food security through the conservation, exchange and sustainable use of the world's plant genetic

resources for food and agriculture (PGRFA), the fair and equitable benefit sharing arising from its use, as well as the recognition of farmers' rights.

3- It was signed in 2001 in Paris, and entered into force on 29 June 2004.

Which of the following given above is/are correct

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

**Que-3 With reference to Samarkand, recently in News, consider the following statements**

1- This hosted the 22nd Summit of the BRICS.

2- The name Samarkand is derived from the Sogdian civilisation, where Samar means stone or rock and Khand means fort.

3- Samarkand is a central point for trade due to its easy route access to China and the Mediterranean areas.

Which of the following given above is/are correct

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

**Que-4 Consider the following statements about Kedarnath Temple**

- 1- This is a Hindu temple dedicated to Shiva.
- 2- The temple is located on the Garhwal Himalayan range near the Bhagirathi river, in the state of Uttarakhand.

Which of the following given above is/are correct

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

**Que-5 With reference to biodiesel, consider the following statements**

- 1- The biofuel was extracted from Jatropha plant seeds using a technology patented by the Council of Scientific and Industrial Research (CSIR) and the Indian Institute of Petroleum, Dehradun.
- 2- The country's first mass production bio-ATF (aviation turbine fuel) plant is being set up by Mumbai Refinery and Petrochemicals Limited (MRPL).

Which of the following given above is/are correct

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

**Que-6 Consider the following statements about cheetahs**

- 1- The name 'cheetah' is believed to have originated from Sanskrit word chitrak, which means 'the spotted one'.
- 2- The cheetah is believed to have disappeared from the Indian landscape in 1947 when Maharaja Ramanuj Pratap Singh Deo of Koriya princely state hunted down and shot the last three recorded Asiatic cheetahs in India.
- 3- The cheetah was officially declared extinct by the Indian government in 1952.

Which of the following given above is/are correct

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

**Que-7 With reference to Colour revolutions", consider the following statements**

- 1- This refer to a series of uprisings that first began in former communist nations in Eastern Europe in the early 2000s, but are also used in reference to popular movements in the Middle East and Asia.
- 2- Involved large-scale mobilisation on the streets, with demands for free elections or regime change, and calls for removal of authoritarian leaders.

Which of the following given above is/are correct

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

**Que-8 Consider the following statements about**

- 1- Orange Revolution - Ukraine  
2- Tulip Revolution - Sudan  
3- Jasmine Revolution - Tunisia

Which of the following given above is/are correct

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

### ANSWER

1- (b)

- Aims to motivate students in the age group of 10-15 years and studying in classes 6 to 10.
- Under this scheme, schools can nominate 5 best original ideas/innovations of students..

2- (a)

- It was signed in 2001 in Madrid, and entered into force on 29 June 2004.

3- (d)

- This hosted the 22nd Summit of the Shanghai Cooperation Organization (SCO).
- The name Samarkand is derived from the Sogdian civilisation, where Samar means stone or rock and Khand means fort. Thus, Samarkand means a town or fort of rock or stone. The city of Samarkand is a storehouse of natural resources spanning Central Asia.
- Samarkand is located in the Zarefshan River valley in the Southeastern region of Uzbekistan.
- Samarkand is the country's cultural capital and has always been an intrinsic part of the world culture for more than two and a half millennia.

• In central Asia, it is one of the oldest cities to be inhabited.

• Inhabitation in Samarkand started almost in 1500 BC.

• Samarkand is a central point for trade due to its easy route access to China and the Mediterranean areas.

4- (a)

- The temple is located on the Garhwal Himalayan range near the Mandakini river, in the state of Uttarakhand.



5- (a)

- The country's first mass production bio-ATF plant is being set up by Mangalore Refinery and Petrochemicals Limited (MRPL), a subsidiary of ONGC, fully integrated with its refinery at Mangaluru in Karnataka.

6- (c)

- While over-hunting was a major contributing factor for the cheetah's extinction, the decimation of its relatively narrow prey base species and the loss of its grassland-forest habitat also played a role. During the decades preceding independence, as well as those after, India's emphasis on agriculture – which included acquiring and parcelling off grassland – led to a decline in the cheetah's habitat.
- Since the 1940s, the cheetah has gone extinct in 14 other countries – Jordan, Iraq, Israel, Morocco, Syria, Oman, Tunisia, Saudi Arabia, Djibouti, Ghana, Nigeria, Kazakhstan, Pakistan and Afghanistan.

7- (c)

8- (b)

- Orange Revolution: It refers to a series of protests that occurred in Ukraine between November 2004 and January

2005. The movement was in response to reports from international and domestic observers that claimed that the country's 2004 Presidential election runoff between Viktor Yushchenko, an ally of the West, and then incumbent President Viktor Yanukovich, who was backed by Moscow, was rigged in favour of the latter. In the aftermath of the elections, protesters wearing orange took to the streets across the country. Orange was Yushchenko's campaign colour. The results were subsequently annulled and the Ukrainian Supreme Court ordered a re-vote, in which Yushchenko emerged victorious and the movement was concluded.

- Tulip Revolution: Also called the First Kyrgyz Revolution, the movement led to the ouster of Kyrgyzstan's President Askar Akayev in early 2005. These protests were in response to the parliamentary elections in February, in which Akayev's allies and family members won.
- Jasmine Revolution: The popular uprising that occurred between December 2010 to January 2011 in Tunisia was in response to the underlying corruption, unemployment, inflation and lack of political freedoms in the country.

**Que-1 With reference to Ethereum, consider the following statements**

- 1- The world's most valuable cryptocurrency.
- 2- It has a token designed for use in the blockchain network, but it can also be used by participants as a method to pay for work done on the blockchain.
- 3- The blockchain technology that powers Ethereum enables secure digital ledgers to be publicly created and maintained.

Which of the following given above is/are correct

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

**Que-2 Consider the following statements about Nagaland Peace Accord**

- 1- The Nagaland Peace Accord is a peace treaty, signed in 2015, between the Government of India and the Nagaland State government.
- 2- To end the insurgency in the state of Nagaland in Northeast India.

Which of the following given above is/are correct

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

**Que-3 Consider the following statements about Naga tribes**

- 1- The Naga tribes are said to have migrated from southwest China to Burma (now Myanmar) and Thailand, eventually settling in North East India and North West Myanmar.
- 2- The term Naga was created by the British for administrative convenience to refer to a group of tribes with similar origins but distinct cultures, dialects, and customs.
- 3- The Naga tribes are accumulated in Nagaland, Arunachal Pradesh, Manipur, and Myanmar.

Which of the following given above is/are correct

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

**Que-4 With reference to Lumpy Skin Disease, consider the following statements**

- 1- The disease is caused by a bacteria in the family Poxviridae.
- 2- The disease is characterised by the development of nodules in the skin, which may cover the whole of the animal's body.
- 3- It targets cattle and is transmitted by blood-feeding insects.

Which of the following given above is/are correct

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

**Que-5 Consider the following statements about World Ozone Day**

1- September 16 of each year is observed as World Ozone Day, also known as the International Day for the Preservation of the Ozone Layer.

2- The ozone layer, a fragile shield of gas, protects the Earth from the harmful portion of the rays of the sun, thus helping preserve life on the planet.

3- This year theme is "Montreal Protocol@25".

Which of the following given above is/are correct

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

**Que-6 With reference to PM PRANAM Yojana, consider the following statements**

1- Short for PM Providing Alternate Nutrients for Agriculture Management Yojana.

2- To reduce the use of chemical fertilisers by incentivising states.

3- It aims to bring down the subsidy burden on chemical fertilisers, which is estimated to reach Rs 2.25 lakh crore in

2022-23 — 39 per cent higher than last year's figure of Rs 1.62 lakh crore.

Which of the following given above is/are correct

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

**Que-7 Consider the following statements about International Day of Democracy**

1- The International Day of Democracy is observed every year on September 21.

2- According to UNESCO, 85 percent of the world's population has experienced a decline in press freedom in their country in the past five years.

3- The theme for International Day of Democracy 2022 is "the importance of media freedom to democracy, peace, and delivering on the Sustainable Development Goals".

Which of the following given above is/are correct

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

**Que-8 Which has recently declared A as India's first Swachh Sujal Pradesh**

- a) Kerala
- b) Andaman and Nicobar Islands
- c) Chandigarh
- d) Lakshadweep

### ANSWER

1- (d)

- The world's second most valuable cryptocurrency.
- Ethereum is a blockchain-based platform best known for its cryptocurrency, ETH.
- The blockchain technology that powers Ethereum enables secure digital ledgers to be publicly created and maintained.
- Bitcoin and Ethereum have many similarities but different long-term visions and limitations.
- Ethereum is transitioning to an operational protocol that offers incentives to process transactions to those who stake their ETH.2
- Ethereum is the foundation for many emerging technological advances.

2- (b)

- The Nagaland Peace Accord is a peace treaty, signed in 2015, between the Government of India and the National Socialist Council of Nagaland (NSCN).

3- (c)

- The Naga tribes are accumulated in Nagaland, Arunachal Pradesh, Manipur, and Myanmar.
- Residing in the Naga Hills of Assam during the advent of the British and the annexation of Assam in 1820, living in isolation and wanting no interference in their cultural ways and customs, the Nagas did not consider themselves a part of British India. The British adopted a way of governance over the Nagas that involved keeping in place to a large extent, their traditional ways of life, customs, and laws while putting British administrators at the top. Finding this approach favourable, the colonial government later declared the Naga hills an "excluded area" in the Assam province in 1935.
- At the time of the withdrawal of the British, insecurity grew among the Naga tribes about the future of their cultural autonomy after India's independence, which was accompanied by the fear of the entry of 'plains people' or 'outsiders' into



their territory. These gave rise to the formation of the Naga Hills District Tribal Council in 1945, which was renamed the Naga National Council (NNC) in 1946.

4- (d)

- The disease is caused by a virus in the family Poxviridae.
- Lumpy Skin Disease is a viral outbreak that targets cattle and is transmitted by blood-feeding insects like mosquitoes, flies, lice and wasps by direct contact and also through contaminated food and water. The disease is characterised by the development of nodules in the skin, which may cover the whole of the animal's body, and lesions are often found in the mouth and upper respiratory tract.
- The systemic effects include pyrexia, anorexia, dysgalactia and pneumonia.

5- (a)

- In 1994, the United Nations General Assembly proclaimed 16 September the International Day for the Preservation of the Ozone Layer, commemorating the date of the signing, in 1987, of the Montreal Protocol on Substances that Deplete the Ozone Layer (resolution 49/114).

- This 2022 marks the 35th year of implementation of the Montreal Protocol, UN is observing the Ozone Day with the theme "Montreal Protocol@35" and the worldwide collaboration safeguarding life on earth is the topic for this year's World Ozone Day.

- There are a number of commonly used chemicals have been found to be extremely damaging to the ozone layer. Halocarbon chemicals (Carbon linked with Halogens- Fluorine, Chlorine, Bromine etc) especially those containing Bromine have high ozone-depleting potential. Methyl bromide, methyl chloroform, carbon tetrachloride and families of chemicals known as halons, chlorofluorocarbons (CFCs) and hydrochlorofluorocarbons (HCFCs) also cause the depletion of the ozone layer.

6- (d)

- Short for PM Promotion of Alternate Nutrients for Agriculture Management Yojana.

7- (d)

- The International Day of Democracy was established in 2007 through a resolution passed by the UN General Assembly, encouraging governments

to strengthen and consolidate democracy.

- The International Day of Democracy is observed every year on September 15.

8- (b)

- Now, all villages of Andaman and Nicobar Island have been certified as Har Ghar Jal and verified as open defecation free - ODF plus.
- 

GES  
REPORTER

**Que-1 Criminal contempt means the publication (whether by words, spoken or written, or by signs, or by visible representations, or otherwise) of any matter or the doing of any other act whatsoever which**

1- Scandalises or tends to scandalise, or lowers or tends to lower the authority of, any court.

2- Prejudices, or interferes or tends to interfere with, the due course of any judicial proceeding.

3- Interferes or tends to interfere with, or obstructs or tends to obstruct, the administration of justice in any other manner.

Which of the following given above is/are correct

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

**Que-2 Consider the following statements about District Disability Rehabilitation Centre (DDRC)**

1- It is an initiative by the Ministry of Rural Development.

2- To facilitate comprehensive services to Persons with Disabilities in the rural areas.

3- These centres are run jointly by District Management Team headed by

DM/Collector and a reputed NGO (Usually Indian Red Cross Society).

Which of the following given above is/are correct

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

**Que-3 With reference to National Logistics Policy, recently launched, consider the following statements about its features**

1- Integration of Digital System (IDS).

2- Unified Logistics Interface Platform (ULIP).

3- System Improvement Group (SIG).

Which of the following given above is/are correct

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

**Que-4 Logistics broadly includes facilities crucial to trade, which includes**

1- Transport services for the movement of goods.

2- Storage facilities that are particularly essential for trade in perishable goods such as food items, fruits, and vegetables.

3- Smooth functioning of government services that facilitate trade such as licensing and customs.

Which of the following given above is/are correct

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

**Que-5 With reference to National Assessment and Accreditation Council (NAAC), consider the following statements**

- 1- An autonomous body under the All India Council for Technical Education (AICTE).  
2- This assesses and certifies Higher-level Educational Institutions (HEIs) with gradings as part of accreditation.

Which of the following given above is/are correct

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

**Que-6 With reference to Asian Development Bank (ADB), consider the following statements**

- 1- It is committed to achieving a prosperous, inclusive, resilient, and sustainable Asia and the Pacific, while sustaining its efforts to eradicate extreme poverty.  
2- Established in 1966, it is owned by 68 members-49 from the region.  
3- Its headquarter is located at Kuala Lumpur, Malaysia.

Which of the following given above is/are correct

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

**Que-7 Consider the following statements about Numaligarh Refinery Limited (NRL)**

- 1- Located in Assam.  
2- NRL is a NavRatna PSU and it is one of 4 refineries in Assam.  
3- It is a group company of Oil India Limited (earlier subsidiary of BPCL).

Which of the following given above is/are correct

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

**Que-8 Nanmadol, recently in News, was a**

- a) Volcano  
b) Typhoon  
c) Meteos  
d) Planet
-



**ANSWER**

1- (c)

- According to the Contempt of Courts Act, 1971, contempt of court can either be civil contempt or criminal contempt. The former means wilful disobedience of any judgment, decree, direction, order, writ or other process of a court, or wilful breach of an undertaking given to a court.
- Contempt of court may be punished with simple imprisonment for a term which may extend to six months, or with a fine of maximum Rs 2,000, or with both, provided that the accused may be discharged or the punishment awarded may be remitted on apology being made to the satisfaction of the court.

2- (d)

- It is an initiative by the Ministry of Social Justice and Empowerment.
- DDRC's is a joint venture of Central and State Governments wherein Central Government will establish, initiate, implement the centre for three years involving funding for man power contingencies as well as required equipments and coordination. State Government will provide provision for rent free , well connected building, basic

infrastructure, furniture, monitoring and coordination of activities through District Management Team (DMT) Chaired by the District Collector and also identification of implementing agency.

3- (c)

- The new logistics policy has four features: Integration of Digital System (IDS); Unified Logistics Interface Platform (ULIP); Ease of Logistics (ELOG); and System Improvement Group (SIG). Under the IDS, 30 different systems of seven departments are integrated – including data from the road transport, railways, customs, aviation and commerce departments.
- A Unified Logistics Interface Platform ULIP will “bring all the digital services related to the transportation sector into a single portal”, the PM said. Similarly, a new digital platform Ease of Logistics Services (E-Logs) has also been started for industry associations to resolve issues by reaching out to the government.

4- (c)

- Logistics broadly includes facilities crucial to trade: transport services for the movement of goods, storage facilities that are particularly essential for trade in perishable goods such as

food items, fruits, and vegetables, and smooth functioning of government services that facilitate trade such as licensing and customs.

5- (b)

- The NAAC, an autonomous body under the University Grants Commission (UGC), assesses and certifies HEIs with gradings as part of accreditation.
- Through a multi-layered process, a higher education institution learns whether it meets the standards of quality set by the evaluator in terms of curriculum, faculty, infrastructure, research, and other parameters. The ratings of institutions range from A++ to C. If an institution is graded D, it means it is not accredited.

6- (a)

- The Asian Development Bank (ADB) is a regional development bank established on 19 December 1966, which is headquartered in the Ortigas Center located in the city of Mandaluyong, Metro Manila, Philippines.
- The bank admits the members of the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP, formerly the Economic Commission for Asia and the Far East

or ECAFE) and non-regional developed countries. From 31 members at its establishment, ADB now has 68 members.

- The ADB was modeled closely on the World Bank, and has a similar weighted voting system where votes are distributed in proportion with members' capital subscriptions.
- As of 31 December 2020, Japan and the United States each holds the largest proportion of shares at 15.571%. China holds 6.429%, India holds 6.317%, and Australia holds 5.773%.

7- (b)

- Located at Morangi, Golaghat district, Assam.
- NRL is a Category-I Mini Ratna PSU and it is one of 4 refineries in Assam.

8- (b)

**Que-1** Ports, Shipping & Waterways Minister had recently laid foundation stones for construction of two floating jetties at Bogibeel and Guijan as part of the launch of multiple projects for the development of the Bogibeel region in

- a) West Bengal
- b) Assam
- c) Maharashtra
- d) Gujarat

**Que-2** In a move that will provide better market-linked solutions for stressed companies, watchdog Insolvency and Bankruptcy Board of India (IBBI) has amended its regulations which are

- 1- To allow sale of one or more assets of an entity undergoing insolvency resolution process.
- 2- The Committee of Creditors (CoC) can now examine whether a compromise or an arrangement can be explored for a corporate debtor during the liquidation period.
- 3- Amended the regulations with the objective to maximise value in resolution.

Which of the following given above is/are correct

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

**Que-3** Consider the following statements about Community of Latin American and Caribbean States (CELAC)

- 1- It is a regional bloc of 33 sovereign countries in Latin America and the Caribbean.
- 2- CELAC is the successor of the Rio Group and the Latin American and Caribbean Summit on Integration and Development (CALC).
- 3- Argentina decided to suspend its participation in the Community of Latin American and Caribbean States in January 2020.

Which of the following given above is/are correct

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

**Que-4** The withdrawal of the Southwest monsoon was based on meteorological conditions such as

- 1- Anti-cyclonic circulation (dry air that is the opposite of a cyclone).
- 2- The absence of rainfall in the last one week.
- 3- Water vapour imagery indicating dry weather conditions over the region.

Which of the following given above is/are correct

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

**Que-5 With reference to Digital lending, consider the following statements about**

- 1- Digital Lending involves lending through web platforms or mobile apps, utilizing technology for authentication and credit evaluation.
- 2- RBI has categorised digital lenders into five groups.
- 3- Data collected by digital lending apps must be need-based, with the borrower's prior consent, and can be audited if required.

Which of the following given above is/are correct

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

**Que-6 Consider the following statements about Solar Energy Corporation of India (SECI)**

- 1- It is a company of the Ministry of New and Renewable Energy.
- 2- Established to facilitate the implementation of the National Solar Mission (NSM).
- 3- This received Navaratna status.

Which of the following given above is/are correct

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

**Que-7 Consider the following statements**

- 1- National Investigation Agency (NIA) too has powers to take suo motu cognizance of offences across the country, the schedule of the NIA Act — that is, the types of offences that it can investigate — is limited to about a dozen offences.
- 2- Prevention of Money Laundering Act (PMLA), 2002 allows the ED to take cognizance of any offence under its wide-ranging schedule across the country, with or without the consent of state governments.
- 3- PMLA give investigators the power to arrest and attach properties and assets of accused, impose stringent bail conditions, and make a statement recorded before an investigating officer admissible in court as evidence.

Which of the following given above is/are correct

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



**Que-8 The Reserve Bank of India (RBI) had recently removed Central Bank of India from its Prompt Corrective Action Framework (PCAF). With respect to PSAF, consider the following**

1- The PCA norm is a supervisory tool and is imposed.

2- It is imposed when a bank breaches certain regulatory thresholds on capital to risk weighted assets ratio (CRAR), net NPAs and return on assets (RoA).

Which of the following given above is/are correct

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

## ANSWER

1- (b)

- The Project Influence Area (PIA) for Bogibeel terminal is at the upper part of Assam, which forms the Dibrugarh and encompasses districts of Golaghat, Jorhat, Sibsagar, Dibrugarh, Tinsukia and parts of Nagaland. The PIA is marked by the presence of paper industry, coal deposits, food processing units, tea estates, fertiliser production unit and refineries.

2- (c)

- The Insolvency and Bankruptcy Board of India (IBBI) has amended the regulations with the "objective to maximise value in resolution" and they came into effect from September 16.
- The regulator has permitted a resolution professional and the CoC to look for sale of one or more assets of the corporate debtor concerned in cases where there are no resolution plans for the whole business.
- The Insolvency and Bankruptcy Code (IBC) provides for a market-linked and time-bound resolution of stressed assets.
- The amended regulations will also enable a "resolution plan to include sale of one or more assets of CD

(Corporate Debtor) to one or more successful resolution applicants submitting resolution plans for such assets and providing for appropriate treatment of the remaining assets."

- With the amendments to IBBI (Insolvency Resolution Process for Corporate Persons) Regulations, marketing of assets of a corporate debtor can be done that will help in wider dissemination of information to a wider and targeted audience of potential resolution applicants.

3- (a)

- The 33 members CELAC includes Antigua and Barbuda, Argentina, Bahamas, Barbados, Belize, Bolivia, Brazil\*, Chile, Colombia, Costa Rica, Cuba, Dominica, Ecuador, El Salvador, Guatemala, Grenada, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Paraguay, Peru, Panama, Dominican Republic, Saint Kitts and Nevis, Saint Vincent and The Grenadines, St. Lucia, Suriname, Trinidad and Tobago, Venezuela and Uruguay.
- [\*On 16 January 2020, Brazil informed CELAC of its decision to "suspend its participation in activities of the Community of Latin American and Caribbean States because it considers that the organisation does not have

the conditions to act adequately in the current context of regional crisis".]

4- (b)

- The absence of rainfall in the last five days.
- The monsoon withdrawal is a long drawn process and extends into mid-October though the IMD considers September 30 to be the final day of monsoon rain over India. The rain after that is categorised as 'post monsoon' rainfall.

5- (b)

**RBI has categorised digital lenders into three groups:**

- Entities which are regulated by the RBI and are allowed to carry out lending business.
- Entities that are authorized to carry out lending as per other statutory or regulatory provisions but are not regulated by the RBI.
- Entities lending outside the purview of any statutory or regulatory provisions.

6- (a)

- It is the only Central Public Sector Undertaking (PSU) dedicated to the solar energy sector. The company's mandate has been broadened to cover the entire renewable energy

domain and the company will be renamed to Renewable Energy Corporation of India (RECI).

7- (c)

- ED has, therefore, been able to register money laundering cases against politicians or activists based on FIRs filed by state police forces — something the CBI is unable to do unless requested by the state government, or ordered by a court or the Central Vigilance Commission (CVC).
- The schedule of the PMLA on the other hand, has increased from just six offences in 2002 — when the law was enacted — to 30 groups of offences encompassing over 147 provisions now. The ED's sweeping ambit extends from serious crimes such as terrorism to the hunting of wild animals, and from the infringement of copyright to false trademarks.
- The provisions of the PMLA, which give investigators the power to arrest and attach properties and assets of accused, impose stringent bail conditions, and make a statement recorded before an investigating officer admissible in court as evidence, have made the ED much more powerful than the CBI.

8- (c)

**Que-1 The Cabinet had recently approved the modifications in the Programme for development of semiconductors and display manufacturing ecosystem in India, these are**

- 1- Fiscal support of 50% of Project Cost on pari-passu basis for all technology nodes under Scheme for Setting up of Semiconductor Fabs in India.
- 2- Fiscal support of 50% of Project Cost on pari-passu basis under Scheme for Setting up of Display Fabs.
- 3- Fiscal support of 50% of Capital Expenditure on pari-passu basis under Scheme for Setting up of Compound Semiconductors / Silicon Photonics / Sensors Fab and Semiconductor ATMP /OSAT facilities in India.

Which of the following given above is/are correct

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

**Que-2 With reference to two Diving Support Vessels, recently launched, consider the following statements**

- 1- Launched by Indian Coast Guard.
- 2- Named as Nistar and Nipur.
- 3- The vessels built by Hindustan Shipyard Ltd.

Which of the following given above is/are correct

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

**Que-3 With reference to Prevention of Cruelty to Animals Act, 1960, consider the following statements**

- 1- The Act defines cruelty to animals — including acts of overburdening or overworking it, not providing the animal food, water and shelter, mutilating or killing an animal, etc.
- 2- It lays down punishment as in the case of a first offence, with fine which shall not be less than ten thousand rupees but which may extend to fifty thousand rupees.
- 3- The Act has been criticised for being 'speciesist' (put very simply, the assumption that humans are a superior species deserving more rights), for its quantum of punishment being negligible, for not defining 'cruelty' adequately, and for slapping a flat punishment without any gradation of crimes.

Which of the following given above is/are correct

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



**Que-4** The government had identified 15 tourist circuits under the Swadesh Darshan scheme in 2014-15. In terms of train collaboration which are already active circuits

- 1- The Ramayana
- 2- Buddhist circuit
- 3- Coastal Circuits

Which of the following given above is/are correct

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

**Que-5** Consider the following statements about BrahMos

- 1- It is a joint venture between India and Russia.
- 2- Surface-to-air missiles (SSMs).
- 3- Dual role capability for land as well as anti-ship attacks.

Which of the following given above is/are correct

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

**Que-6** What is the draft Telecom Bill's key amendments?

- 1- Inclusion of new-age over-the-top communication services like WhatsApp, Signal and Telegram in the definition of telecommunication services.
- 2- Providers of telecommunication services will be covered under the licensing regime, and will be subjected to similar rules as other telecom operators.
- 3- The Centre is also looking to amend the Telecom Regulatory Authority of India Act (TRAI Act) to dilute the sectoral watchdog's function of being a recommendatory body.

Which of the following given above is/are correct

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

**Que-7** Which among the following country does not belong to I2U2 group

- a) India
- b) Italy
- c) UAE
- d) US

**Que-8 Consider the following statements about Indian Olympic Association (IOA)**

1- It is the body responsible for selecting athletes to represent India at the Olympic Games, Asian Games and other international athletic meets and for managing the Indian teams at these events.

2- It also acts as the Indian Commonwealth Games Association, responsible for selecting athletes to represent India at the Commonwealth Games.

Which of the following given above is/are correct

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

**ANSWER**

1- (c)

- Under modified programme, a uniform fiscal support of 50% of Project Cost shall be provided across all technology nodes for setting up of Semiconductor Fabs. Given the niche technology and nature of compound semiconductors and advanced packaging, the modified programme shall also provide fiscal support of 50% of Capital Expenditure in pari-passu mode for setting up of compound semiconductors / silicon photonics / sensors / discrete semiconductors fabs and ATMP/OSAT.

- The programme has attracted many global semiconductor players for setting up fabs in India. The modified programme, will expedite investments in semiconductor and display manufacturing in India. On the basis of discussion with potential investors, it is expected that work on setting up of the first semiconductor facility will commence soon.

2- (d)

- Launched by Indian Navy.
- 'Nistar' and 'Nipun' were launched by achieving approximately 80 per cent indigenous content, a major step towards 'Self Reliance'. The DSV

project has generated local employment opportunities and promoted indigenisation which will boost India's economy.

3- (b)

- It lays down punishment as in the case of a first offence, with fine which shall not be less than ten rupees but which may extend to fifty rupees.
- The Act has been criticised for being 'speciesist' (put very simply, the assumption that humans are a superior species deserving more rights), for its quantum of punishment being negligible, for not defining 'cruelty' adequately, and for slapping a flat punishment without any gradation of crimes.

4- (a)

- The government had identified 15 tourist circuits under the Swadesh Darshan scheme in 2014-15.
- Besides the Ramayana and Buddhist Circuits, others include Coastal Circuit, Desert Circuit, Eco Circuit, Heritage, North East, Himalayan, Sufi, Krishna, Rural, Tribal, and Tirthankar Circuits. In terms of train collaboration, the Ramayana, Buddhist, and North East Circuits are already active, while Ambedkar will be fourth.

- As far as circuit development is concerned, until March 2022, 76 projects had been sanctioned in these 15 circuits at an estimated cost of Rs 5,445 crore.

5- (b)

- Surface-to-surface missiles (SSMs).

6- (c)

- Through the Indian Telecommunication Bill, 2022, the Centre aims to consolidate and amend the existing laws governing the provision, development, expansion and operation of telecommunication services, telecom networks and infrastructure, in addition to assignment of spectrum. The draft Bill, which was published by the DoT late recently, consolidates three separate acts that govern the telecommunications sector — Indian Telegraph Act 1885, Indian Wireless Telegraphy Act 1933, and The Telegraph Wires, (Unlawful Protection) Act 1950.

- As per the draft law, providers of telecommunication services will be covered under the licensing regime, and will be subjected to similar rules as other telecom operators. This issue has been under contention for several years now with telecom service providers seeking a level-playing field

with OTT apps over communication services such as voice calls, messages, etc. where operators had to incur high costs of licences and spectrum, while OTT players rode on their infrastructure to offer free services.

- The Centre is also looking to amend the Telecom Regulatory Authority of India Act (TRAI Act) to dilute the sectoral watchdog's function of being a recommendatory body. The current TRAI Act mandates the telecom department to seek the regulator's views before issuing a new licence to a service provider. The proposed Bill does away with this provision. It has also removed the provision that empowered TRAI to request the government to furnish information or documents necessary to make this recommendation. Additionally, the new Bill also proposes to remove the provision where if the DoT cannot accept TRAI's recommendations or needs modification, it had to refer back the recommendation for reconsideration by TRAI.

7- (b)

8- (c)

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**Que-1 With reference to International conference on Consciousness, recently inaugurated, consider the following statements**

1- Its theme is "Exploring Consciousness- From Non- Locality to Non- Duality: The Man- Machine Debate".

2- The conference is organized by India Foundation and NIMHANS and supported by Ministry of Science and Technology.

Which of the following given above is/are correct

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

**Que-2 What is banking system liquidity?**

1- Liquidity in the banking system refers to readily available cash that banks need to meet short-term business and financial needs.

2- On a given day, if the banking system is a net borrower from the RBI under Liquidity Adjustment Facility (LAF), the system liquidity can be said to be in deficit.

3- The LAF refers to the RBI's operations through which it injects or absorbs liquidity into or from the banking system.

Which of the following given above is/are correct

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

**Que-3 What is carbon dating?**

1- Carbon dating is a widely-used method applied to establish the age of organic and inorganic material.

2- The dating method makes use of the fact that a particular isotope of carbon called C-14, with an atomic mass of 14, is radioactive, and decays at a rate that is well known.

3- The ratio of carbon-12 to carbon-14 in the atmosphere is almost static, and is known.

Which of the following given above is/are correct

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

**Que-4 The first annual Breakthrough Agenda Report, requested by 45 world leaders, delivers a progress report on the actions needed to deliver on the historic clean technology commitment by governments representing two-thirds of the global economy. Consider the following statements about this report**

1- Aims to align countries' actions and coordinate investment to scale up deployment and drive down costs across six

key sectors -- power, road transport, steel, hydrogen, cement and agriculture.

2- The report notes an increase in practical international cooperation in recent years, and progress in deploying the technologies needed, including a doubling of EVs sales in 2021 from the previous year.

3- The report puts forward 25 recommendations for leaders to discuss at the Global Clean Energy Action Forum.

Which of the following given above is/are correct

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

**Que-5 What is the Dvorak technique?**

1- It was first developed in 1969 and tested for observing storms in the northwest Pacific Ocean.

2- The Dvorak technique was a wind pattern recognition technique based on a concept model of the development and decay of the tropical cyclone.

3- It is the Dvorak technique which gives the best estimates of the cyclone intensity — a vital component while issuing weather warnings.

Which of the following given above is/are correct

- a) 1 only      b) 1 and 3 only

- c) 1, 2 and 3      d) 2 and 3 only

**Que-6 Many countries have researched and deployed cloud seeding to deal with**

1- Water scarcity

2- Ecological crisis

3- Food security

Which of the following given above is/are correct

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

**Que-7 With reference to Kyrgyzstan and Tajikistan, consider the following statements**

1- The two landlocked countries share an approximately 1,000-km long border, a large part of which is disputed.

2- While regular talks have tried to resolve the issue, one of the crucial points of disagreement remains over the map which should be used for demarcation purposes

3- Both countries share multiple water channels with undulating trajectories and flow, which upset equitable access to water on both sides.

Which of the following given above is/are correct

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

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

## ANSWER

**Que-8 Consider the following statements about**

1- Four planets — Jupiter, Saturn, Neptune and Uranus — are known to have rings.

2- Jupiter's rings, composed of water ice particles ranging from microns to tens of metres in size, are the brightest.

3- Saturn has a tilt of 26.73 degrees, Earth 23.45 degrees and Jupiter 3 degrees.

Which of the following given above is/are correct

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

1- (a)

- Union Minister of Ayush had recently inaugurated the international conference on Consciousness with the theme, "Exploring Consciousness- From Non- Locality to Non- Duality: The Man- Machine Debate" at NIMHANS, Bengaluru. The conference is organized by India Foundation and NIMHANS and supported by Ministry of Ayush.

- Main objectives of the Centre of Excellence (CoE) project at NIMHANS is to conduct clinical trials in four neuro-psychiatric disorders to establish efficacy, safety and proposed mechanism of Integrated Yoga and Ayurveda treatment approaches. It will also understand the Integrative neurobiology of Neuropsychiatric Disorders ("Doshic-Brain"), create a unified digital database and train and develop clinician-scientists who have niche skills-sets in examining brain-health from both traditional and modern scientific approaches.

2- (c)

- Liquidity in the banking system refers to readily available cash that banks need to meet short-term business and financial needs.

- On a given day, if the banking system is a net borrower from the RBI under Liquidity Adjustment Facility (LAF), the system liquidity can be said to be in deficit and if the banking system is a net lender to the RBI, the system liquidity can be said to be in surplus.
- The LAF refers to the RBI's operations through which it injects or absorbs liquidity into or from the banking system.

3- (d)

- Carbon dating is a widely-used method applied to establish the age of organic material, things that were once living.
- The most abundant isotope of carbon in the atmosphere is carbon-12 or a carbon atom whose atomic mass is 12. A very small amount of carbon-14 is also present. The ratio of carbon-12 to carbon-14 in the atmosphere is almost static, and is known.
- Plants get their carbon through the process of photosynthesis, while animals get it mainly through food. Because plants and animals get their carbon from the atmosphere, they too acquire carbon-12 and carbon-14 isotopes in roughly the same proportion as is available in the atmosphere.

- But when they die, the interactions with the atmosphere stops. There is no further intake of carbon (and no outgo either, because metabolism stops). Now, carbon-12 is stable and does not decay, while carbon-14 is radioactive. Carbon-14 reduces to one-half of itself in about 5,730 years. This is what is known as its 'half-life'.

4- (d)

- The report also warns that far greater international cooperation is needed to get the world on track to meet its climate commitments.
- The Breakthrough Agenda, as the commitment is known, aims to align countries' actions and coordinate investment to scale up deployment and drive down costs across five key sectors -- power, road transport, steel, hydrogen and agriculture.
- Together, these sectors account for nearly 60 per cent of global greenhouse gas (GHG) emissions today and could deliver the bulk of the emission reductions needed by 2030 in a pathway that would make a significant contribution to limiting global warming to a maximum of 1.5 degrees Celsius, in line with the Paris Agreement goals.



5- (b)

- It was first developed in 1969 and tested for observing storms in the northwest Pacific Ocean. Forecasters used the available satellite images obtained from polar orbiting satellites to examine the features of the developing tropical storms (hurricanes, cyclones and typhoons). During day time, images in the visible spectrum were used while at night, the ocean would be observed using infrared images.
- The Dvorak technique was a cloud pattern recognition technique based on a concept model of the development and decay of the tropical cyclone, according to a 2006 research paper published in the journal of American Meteorological Society.
- “From the satellite images thus obtained, the Dvorak technique helps forecasters to do a pattern recognition from the observed structure of the storm, locate its eye and estimate the intensity of the storm”.
- Through this statistical technique, scientists are able to measure the cyclone’s convective cloud pattern — curved bands, eye and central dense or cold region and shear. It is the Dvorak technique which gives the best

estimates of the cyclone intensity — a vital component while issuing weather warnings.

- This tool, experts claim, cannot help make any predictions, measure wind or pressure or any other meteorological parameters associated with the cyclone. But it is a guide to estimate the storm’s intensity and possible intensification — which is crucial for local administration in planning evacuation measures of coastal or other nearby residents.

6- (c)

- Many countries have researched and deployed cloud seeding to deal with water scarcity, ecological crisis and food security. Private centres such as skiing resorts use it to produce artificial snow. So cloud seeding is already quite popular.
- The best example is the 2008 Olympic Games, where weather modification was used to prevent rain. So China does not only use the technology for ecological and environmental concerns but also for state interests in a broader sense.

7- (c)

- The two landlocked countries, Kyrgyzstan and Tajikistan, share an

approximately 1,000-km long border, a large part of which is disputed. There have been flare-ups in the past as well over sharing water and land resources.

- The issue of the delimitation of the border is a relic of the Soviet era. While regular talks have tried to resolve the issue, one of the crucial points of disagreement remains over the map which should be used for demarcation purposes.
- The path to resolution of the conflict will require warring groups to agree upon a common map. The international community too will have to make greater efforts to solve the dispute by involving elders in the communities.
- The collapse of the Soviet Union and the subsequent dissolution of the then-existing water and land agreements saw the creation of multiple smaller independent farms, which led to a marked increase in water consumption patterns among the farmers. Both countries share multiple water channels with undulating trajectories and flow, which upset equitable access to water on both sides. As a result, small-scale conflicts occur practically every year during the crucial irrigation period.

8- (b)

- Saturn's rings, composed of water ice particles ranging from microns to tens of metres in size, are the brightest.
- Currently, gas giants Neptune, Uranus and Saturn have a substantial tilt, suggesting that this feature did not arise during the formation stages. Jupiter — also a gas giant — is the only exception.
- Saturn got its tilt due to gravitational interactions with its neighbour Neptune, according to a well-known theory.
- But researchers associated with the new study argue that Saturn is no longer under Neptune's gravitational influence.
- Instead, Titan — Saturn's largest satellite — may have been responsible, suggested observations from NASA's Cassini spacecraft, which orbited Saturn from 2004-2017.
- Titan is migrating from Saturn at about 11 centimetres per year, 100 times faster than previous estimates, a previous study suggested.
- Titan's fast migration caused the planet to tilt further, reducing Neptune's gravitational influence on Saturn.

**Que-1 As per the Sample Registration System (SRS) Statistical Report 2020, released recently, consider the following statements**

1- Under 5 Mortality Rate (U5MR) for the country has shown significant decline of 3 points from 2019.

2- Infant Mortality Rate (IMR) has registered 2-point decline to 28 per 1000 live births in 2020 from 30 per 1000 live births in 2019.

3- Neonatal Mortality Rate has increased by 2 points from 22 per 1000 live births in 2019 to 24 per 1000 live births in 2020.

Which of the following given above is/are correct

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

**Que-2 With reference to The Group of Four (G4), consider the following statements**

1- The G4 nations, comprising South Africa, Germany, India, and Japan.

2- The group is primarily focused on U.N. Security Council (UNSC) reform, and permanent membership of the body for G4 members.

3- G4 also reiterated its support for African countries being represented in a

permanent and non-permanent capacity on a reformed Council.

Which of the following given above is/are correct

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

**Que-3 With reference to Flex fuel technology, consider the following statements**

1- A flex fuel, or flexible fuel, vehicle has an external combustion engine (ICE).

2- Unlike a regular petrol or diesel vehicle, this can run on more than one type of fuel, or even a mixture of fuels.

3- The most important benefit is that the use of ethanol blending sharply lowers harmful pollutants such as carbon monoxide, sulphur, and carbon and nitrogen oxides.

Which of the following given above is/are correct

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

**Que-4 Consider the following statements about National Service Scheme (NSS) Awards**

1- The Department of Youth Affairs of the Ministry of Youth Affairs and Sports confers every year the National Service Scheme Award.

2- Awards are conferred to recognise and reward outstanding contributions towards voluntary community service made by the Universities and College.

3- NSS is a Centrally Sector Scheme that was launched in the year 1969 with the primary objective of developing the personality and character of the student youth through voluntary community service.

Which of the following given above is/are correct

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

**Que-5 With reference to Coffee ring effect, consider the following statements**

1- In physics, a "coffee ring" is a pattern left by a puddle of particle-laden liquid after it evaporates.

2- The phenomenon is named for the characteristic ring-like deposit along the perimeter of a spill of coffee.

3- This is caused by the inward drift of suspended coffee particles from the centre, causing a denser, darkened rim.

Which of the following given above is/are correct

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

**Que-6 With reference to Major non-NATO ally (MNNA), consider the following statements**

1- This is a designation given by the United States government to close allies that have strategic working relationships with the US Armed Forces but are not members of the North Atlantic Treaty Organization (NATO).

2- The MNNA status was first created in 2001.

3- A major non-NATO ally is eligible for loans of material, supplies, or equipment for cooperative research, development, testing, or evaluation purposes.

Which of the following given above is/are correct

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



**Que-7 Consider the following statements about Operation Megh Chakra, recently in News**

- 1- Launched by the Indian Army.
- 2- In relation to the circulation and sharing of Child Sexual Abuse Material (CSAM).
- 3- It was targeted at cloud storage facilities used by peddlers to circulate audio-visual content of illicit sexual activities with minors, thus earning the code-name 'Megha Chakra'.

Which of the following given above is/are correct

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

**Que-8 With reference to Ayushman Bharat Digital Mission (ABDM), consider the following statements**

- 1- It aims to develop the backbone necessary to support the integrated digital health infrastructure of the country.
- 2- The National Health Authority (NHA) will be the implementing agency of the Ayushman Bharat Digital Mission (ABDM).
- 3- Under the ABDM, citizens will be able to create their ABHA (Ayushman Bharat Health Account) numbers, to which their digital health records can be linked.

Which of the following given above is/are correct

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

### ANSWER

- 1- (a)
  - As per the Sample Registration System (SRS) Statistical Report 2020 released on 22nd September 2022 by Registrar General of India (RGI), the country has been witnessing a progressive reduction in IMR, U5MR and NMR since 2014 towards achieving the Sustainable Development Goals (SDG) targets by 2030.
  - Under 5 Mortality Rate (U5MR) for the country has shown significant decline of 3 points (Annual Decline Rate: 8.6%) from 2019 (32 per 1000 live births in 2020 against 35 per 1000 live births in 2019). It varies from 36 in rural areas to 21 in urban areas. U5MR for Female is higher (33) than male (31). There has been a decline of 4 points in male U5MR and 3 points in female U5MR during the corresponding period. Highest decline of U5MR is observed in the State of Uttar Pradesh (5 points) and Karnataka (5 points).

- Infant Mortality Rate (IMR) has also registered 2-point decline to 28 per 1000 live births in 2020 from 30 per 1000 live births in 2019 (Annual Decline Rate: 6.7%). The Rural-Urban difference has narrowed to 12 points (Urban 19, Rural-31). No gender differential has observed in 2020 (Male -28, Female - 28).
  - Neonatal Mortality Rate has also declined by 2 points from 22 per 1000 live births in 2019 to 20 per 1000 live births in 2020 (Annual Decline Rate: 9.1%). It ranges from 12 in urban areas to 23 in rural areas.
  - Six (6) States/ UT have already attained SDG target of NMR ( $\leq 12$  by 2030): Kerala (4), Delhi (9), Tamil Nadu (9), Maharashtra (11), Jammu & Kashmir (12) and Punjab (12).
  - Eleven (11) States/UT have already attained SDGs target of U5MR ( $\leq 25$  by 2030): Kerala (8), Tamil Nadu (13), Delhi (14), Maharashtra (18), J&K (17), Karnataka (21), Punjab (22), West Bengal (22), Telangana (23), Gujarat (24), and Himachal Pradesh (24).
- 2- (d)
- The G4 nations, comprising Brazil, Germany, India, and Japan.
- 3- (d)
- A flex fuel, or flexible fuel, vehicle has an internal combustion engine (ICE), but unlike a regular petrol or diesel vehicle, this can run on more than one type of fuel, or even a mixture of fuels.
  - The most common versions use a blend of petrol and ethanol or methanol, but these engines are also equipped to run on 100 per cent petrol or ethanol as well.
  - This is made possible by equipping the engine with a fuel mix sensor and an engine control module (ECM) programming that senses and automatically adjusts for any ratio of designated fuels.
  - The most important benefit is that the use of ethanol blending sharply lowers harmful pollutants such as carbon monoxide, sulphur, and carbon and nitrogen oxides. Another obvious benefit is that blending will help cutback on oil imports for fueling vehicles.
  - But there are problems: a flex fuel car typically takes a small hit on fuel efficiency when using ethanol for motive power, ranging from between 4 per cent and 8 per cent. So, while fuel economy is generally lower with increased levels of ethanol (engines are optimised for petrol), on the flip side, many flex fuel vehicles have improved acceleration performance

when operating on higher ethanol blends.

4- (c)

- Awards are conferred to recognise and reward outstanding contributions towards voluntary community service made by the Universities and Colleges, 2 Councils, Senior Secondary, NSS Units, and Programme Officers, and NSS Volunteers, with a view to further promoting NSS in the country.
- NSS is a Centrally Sector Scheme that was launched in the year 1969 with the primary objective of developing the personality and character of the student youth through voluntary community service. The ideological orientation of the NSS is inspired by the ideals of Mahatma Gandhi. Very appropriately, the motto of NSS is “NOT ME, BUT YOU ‘स्वयं से पहले आप’.

5- (a)

- This is caused by the outward drift of suspended coffee particles from the centre, causing a denser, darkened rim.
- For about two decades now, the ‘coffee ring effect’ has been known as when a drop of spilt coffee dries up, the outermost edge of the dried drop is a little darker than the centre, forming a darker ‘ring’. This is caused

by the outward drift of suspended coffee particles from the centre, causing a denser, darkened rim. Now, researchers from Indian Institute of Technology, Madras, have shown that after reaching the rim, as the drop dries, some of the particles undergo an inward drift too. This research has applications in agriculture, forensic science and even disease diagnosis.

6- (b)

- The MNNA status was first created in 1987.
- A major non-NATO ally is eligible for loans of material, supplies, or equipment for cooperative research, development, testing, or evaluation purposes. They are also eligible as a location for US-owned War Reserve Stockpiles to be placed on its territory outside of US military facilities.
- These countries enter into agreements with the United States for the cooperative furnishing of training on a bilateral or multilateral basis, if the financial arrangements are reciprocal and provide for reimbursement of all US direct costs.
- US President has terminated the designation of Afghanistan as a major non-NATO ally, more than a year after the Taliban captured power in Kabul.

7- (d)

- Launched by the Central Bureau of Investigation (CBI).
- CSAM refers to what was previously referred to as 'child pornography'.

8- (c)

- On February 26, 2022, the Union Cabinet approved the national rollout of the Central Sector Scheme, the Ayushman Bharat Digital Mission (ABDM) of the Ministry of Health and Family Welfare with a budget of Rs 1,600 crores for five years. The National Health Authority (NHA) will be the implementing agency of the Ayushman Bharat Digital Mission (ABDM).
- Based on the foundations laid down in the form of Jan Dhan, Aadhaar and Mobile (JAM) trinity and other digital initiatives of the government, Ayushman Bharat Digital Mission (ABDM) is creating a seamless online platform through the provision of a wide range of data, information and infrastructure services, duly leveraging open, interoperable, standards-based digital systems while ensuring the security, confidentiality and privacy of health-related personal information.

- Under the ABDM, citizens will be able to create their ABHA (Ayushman Bharat Health Account) numbers, to which their digital health records can be linked. This will enable the creation of longitudinal health records for individuals across various healthcare providers, and improve clinical decision-making by healthcare providers. The mission will improve equitable access to quality healthcare by encouraging use of technologies such as telemedicine and enabling national portability of health services.
-



**Que-1 Consider the following statements about Capital punishment**

1- Section 354(3) of the Code of Criminal Procedure (CrPC) says that when an offence is punishable with death or imprisonment for life, the judgment shall state the reasons for the sentence awarded, and if the sentence is death, "special reasons" for the sentence.

2- Supreme Court, in Bachan Singh vs State of Punjab (1980) laid down that the death penalty can be awarded only in the 'rarest of rare cases'.

3- The Supreme Court noted in Bachan Singh that Section 235 is based on a recommendation in the 48th Report of the Law Commission, which had said that one of the deficiencies in sentencing policy was the lack of comprehensive information about the characteristics and background of the offender.

Which of the following given above is/are correct

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

**Que-2 With reference to Rosh Hashanah, a Jewish New Year, consider the following statements**

1- The dates of Jewish festivals come from the Gregorian Calendar, so the Jewish

New Year begins in autumn, as opposed to on 1 January.

2- Rosh Hashanah is a celebration of the creation of the world and marks making a fresh start.

3- It is the traditional anniversary of the creation of Adam and Eve, the first man and woman according to the Hebrew Bible.

Which of the following given above is/are correct

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

**Que-3 Consider the following statements about Bathukamma**

1- This is a flower festival celebrated predominantly in Telangana and some parts of Andhra Pradesh.

2- Bathukamma is celebrated for nine days during Durga Navratri.

3- Bathukamma festival that marks the ending of Varsha Ruthu whereas Boddemma festival indicates the beginning of Sarad or Sharath Ruthu.

Which of the following given above is/are correct

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

**Que-4 Consider the following statements about Double Asteroid Redirection Test (DART) Mission**

1- It is a European Space Agency (ESA) mission.

2- It aimed at testing a method of planetary defense against near-Earth objects (NEOs).

3- It was designed to assess the potential of a spacecraft impact to deflect an asteroid, through a transference of momentum.

Which of the following given above is/are correct

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

**Que-5 With reference to Mid-day meal scheme, Consider the following statements**

1- The Midday Meal Scheme is a school meal programme in India designed to better the nutritional standing of school-age children nationwide.

2- The programme supplies free lunches on working days for children in primary and upper primary classes.

3- The Midday Meal Scheme has been implemented in the Union Territory of Puducherry under the Portuguese Administration since 1930.

Which of the following given above is/are correct

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

**Que-6 With reference to Rohini RH-200 sounding rocket, consider the following statements**

1- It is used by the ISRO for atmospheric studies.

2- RH-200 is a two-stage rocket capable of climbing to a height of 700 km bearing scientific payloads.

3- The '200' in the name denotes the diameter of the rocket in mm.

Which of the following given above is/are correct

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

**Que-7 The Food Safety and Standards Authority of India (FSSAI) has released draft notification for front-of-pack labelling to discourage consumers from buying packaged food high in sugar, salt, and fat, which will require pre-packaged food to carry a star graphic — ranging for 0 to 5 — next to the brand name.**

As per the draft notification

1- Items will be given scores based on contribution of energy and content of

saturated fat, sugar, sodium, fruit and vegetables (FV), nuts, legumes, and millets (NLM), dietary fibre, and protein per 100 gm of solid or 100 ml liquid foods.

2- Solid food with a score of more than 25 will be given 0.5 stars, and those with a score less than – (minus)11 will get 5 stars.

3- Food such as milk and milk products, whey, butter oil, ghee, vegetable oil and fat, fresh and frozen fruit and vegetables, fresh and frozen meat, egg, fish, flour, and sweeteners will not have to display the star rating.

Which of the following given above is/are correct

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

**Que-8 Consider the following statements about NavIC (Navigation with Indian Constellation)**

1- It is an independent stand-alone navigation satellite system developed by the Indian Space Research Organisation (ISRO).

2- NavIC consists of fifteen satellites and covers the whole of India's landmass and up to 1,500 km (930 miles) from its boundaries.

3- It is being used in public vehicle tracking in India, for providing emergency warning alerts to fishermen venturing into the deep sea where there is no terrestrial network connectivity, and for tracking and

providing information related to natural disasters.

Which of the following given above is/are correct

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

## ANSWER

1- (c)

- The Supreme Court, in Bachan Singh vs State of Punjab (1980) laid down that the death penalty can be awarded only in the 'rarest of rare cases', the nature of the sentencing hearing has undergone a transformation. Besides the gravity of the crime, the circumstances of the accused also came to be examined to determine the suitability of the death penalty in a given case. Trial courts were required to balance 'aggravating circumstances' and 'mitigating circumstances' to decide the sentence.
- Section 235 of the Code of Criminal Procedure (CrPC) says that after hearing arguments, the judge shall give a judgment; and, "if the accused is convicted, the judge shall hear the accused on the question of sentence and then pass sentence". This process gains significance if the conviction is

for an offence that entails either death or life imprisonment. Section 354(3) says that when an offence is punishable with death or imprisonment for life, the judgment shall state the reasons for the sentence awarded, and if the sentence is death, "special reasons" for the sentence.

2- (d)

- The dates of Jewish festivals come from the Hebrew Calendar, so the Jewish New Year begins in autumn, as opposed to on 1 January.

3- (a)

- Boddemma festival that marks the ending of Varsha Ruthu whereas Bathukamma festival indicates the beginning of Sarad or Sharath Ruthu.
- Every year this festival is celebrated as per Sathavahana calendar for nine days starting Pitru Amavasya, usually in September–October of Gregorian calendar.
- Bathukamma is a beautiful flower stack, arranged with different unique seasonal flowers most of them with medicinal values, in seven concentric layers in the shape of temple gopuram. In Telugu, 'Bathukamma' means 'Mother Goddess come Alive'.

- Historically, bathukamma meant "festival of life" and was celebrating crop harvest.

- It is the festival for feminine felicitation. On this special occasion women dress up in the traditional sari combining it with jewels and other accessories. Teenage Girls wear Langa-Oni/Half-Sarees/Lehenga Choli combining it with jewels in order to bring out the traditional grace of the attire.

4- (d)

- It is a NASA space mission.
- DART is a joint project between NASA and the Johns Hopkins Applied Physics Laboratory (APL).

5- (a)

- The Midday Meal Scheme has been implemented in the Union Territory of Puducherry under the French Administration since 1930.
- The programme supplies free lunches on working days for children in primary and upper primary classes in government, government aided, local body, Education Guarantee Scheme, and alternate innovative education centres, Madarsa and Maqtab supported under Sarva Shiksha Abhiyan, and National Child Labour



Project schools run by the ministry of labour.

- In the post-independent India, Midday meal Scheme was first launched in Tamil Nadu, pioneered by the former Chief minister K. Kamaraj in the early 60s. By 2002, the scheme was implemented in all of the states under the orders of the Supreme Court of India.
- The name of the scheme has been changed to PM-POSHAN (Pradhan Mantri Poshan Shakti Nirman) Scheme, in September 2021, by MoE (Ministry of Education), which is nodal ministry for the scheme.

6- (b)

- RH-200 is a two-stage rocket capable of climbing to a height of 70 km bearing scientific payloads. The first and second stages of RH-200 are powered by solid motors. The '200' in the name denotes the diameter of the rocket in mm. Other operational Rohini variants are RH-300 Mk-II and RH-560 Mk-III.
- Sounding rockets have an important place in the ISRO story. The first sounding rocket to be launched from Thumba was the American Nike-Apache - on November 21, 1963. After that, two-stage rockets imported from Russia (M-100) and France (Centaure)

were flown. The ISRO launched its own version - Rohini RH-75 - in 1967.

- Today, these small rockets are launched both from the Thumba Equatorial Rocket Launching Station (TERLS) and the Satish Dhawan Space Centre, Sriharikota.

7- (c)

- The INR system rates the overall nutritional profile for packaged food by assigning it a rating from ½ star (least healthy) to 5 stars (healthiest). More stars indicate the food product is better positioned to provide for daily human need of nutrients. The logo shall be displayed close in proximity to the name or brand name of the product on front of pack.
- Food such as milk and milk products, whey, butter oil, ghee, vegetable oil and fat, fresh and frozen fruit and vegetables, fresh and frozen meat, egg, fish, flour, and sweeteners will not have to display the star rating. Carbonated beverages without any energy or sugar will also not be eligible for declaring the rating.

8- (b)

- NavIC consists of eight satellites and covers the whole of India's landmass and up to 1,500 km (930 miles) from its boundaries.

- The main difference is the serviceable area covered by these systems. GPS caters to users across the globe and its satellites circle the earth twice a day, while NavIC is currently for use in India and adjacent areas.
  - Like GPS, there are three more navigation systems that have global coverage - Galileo from the European Union, Russia-owned GLONASS and China's Beidou. QZSS, operated by Japan, is another regional navigation system covering Asia-Oceania region, with a focus on Japan.
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**Que-1 Who are cheetah mitras?**

1- Cheetah mitras have mainly been involved by the government to familiarise the local populations with the big cats and minimise potential conflicts.

2- To make the local population understand more about the cheetah and its characteristics.

3- They were government forest officials.

Which of the following given above is/are correct

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

**Que-2 Consider the following statements about Surjapuri and Bajjika dialects**

1- Surjapuri dialect, a mix of Bangla, Urdu, and Hindi.

2- The name Surjapuri comes from Surjapur pargana, which no longer exists.

3- Bajjika is a mix of Pali and Maithili.

Which of the following given above is/are correct

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

**Que-3 Consider the following statements about Attorney General (A-G) of India**

1- The A-G is the Government of India's first law officer, and has the right of audience in all courts of the country.

2- Attorney-General of India shall have the right to speak in, and otherwise to take part in the proceedings and voting of, either House, any joint sitting of the Houses, and any committee of Parliament of which he may be named a member.

3- Article 76(2) of the Constitution says "it shall be the duty of the Attorney-General to give advice to the Government of India upon such legal matters, and to perform such other duties of a legal character, as may from time to time be referred or assigned to him by the President".

Which of the following given above is/are correct

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

**Que-4 With reference to Fund of Funds for Startups (FFS), consider the following statements**

1- It was launched under Startup India initiative in 2016.

2- State Bank of India (SBI) is responsible for operationalising the Scheme.

3- Announced with a corpus of Rs. 10,000 crore.

Which of the following given above is/are correct

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

**Que-5 With reference to production-linked incentive (PLI) scheme to encourage semiconductor and display manufacturing in the country. The new changes recently announced are**

1- The modified scheme provides uniform 50% fiscal support for any nm (nanometer) chip.

2- Government will provide 50% of capital expenditure for other steps of the process as well (chip design and ATMP).

3- The modified scheme also emphasised the production of the 45nm chip, which is fairly less time-consuming and economical in terms of production.

Which of the following given above is/are correct

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

**Que-6 According to the report recently published by the International Renewable Energy Agency (IRENA) in collaboration with the International Labour Organization**

1- Around 700,000 new jobs were created in the renewable energy sector in just one year.

2- Renewable energy employment generation could jump to 38.2 million in 2030 under an ambitious energy transition scenario with front-loaded investments.

3- Close to two-thirds of all such jobs are in Europe, with Germany alone accounting for 42 per cent of the global total.

Which of the following given above is/are correct

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

**Que-7 Consider the following statements about World Environmental Health Day**

1- World Environmental Health Day is a day dedicated to informing people about the health of the environment and preserving it.

2- Every year September 30 is observed as World Environmental Health Day.

3- The day has its footprints in the year 2011 when the environmental summit and International Federation of Environmental



Health (IFEH) met in Denpasar, Bali and Indonesia.

Which of the following given above is/are correct

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

**Que-8 With reference to Thamirabarani River, consider the following statements**

- 1- It is the only perennial river in Tamil Nadu.  
2- It originates in the Pothigai Hills of the Western Ghats in Tirunelveli district.  
3- The river flows through Tirunelveli and then neighbouring Thoothukudi and ends in the Gulf of Mannar at Punakayil.

Which of the following given above is/are correct

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

## ANSWER

1- (a)

- To make the local population understand more about the cheetah and its characteristics, forest officials have trained around 400 cheetah mitras from 51 villages, including school teachers, village headmen and patwaris.
- One such change could be the animals venturing out of the parks into human settlements. The residents have been told how to differentiate the cheetah from a leopard as cheetahs are less likely to attack humans, and to contact forest officials if they spot a cheetah. While taking cattle near the forests for grazing, villagers have been told to listen to the community radio for news about the animal's movements.

2- (a)

- Surjapuri is spoken mainly in Kishanganj and other parts of Seemanchal in northeastern Bihar, including the districts of Katihar, Purnia and Araria. The dialect, a mix of Bangla, Urdu, and Hindi, is also spoken in contiguous parts of West Bengal.
- The name Surjapuri comes from Surjapur pargana, which no longer exists. But there is a toll plaza called

Surjapur between Purnia and Kishanganj.

- Although Surjapuri has nothing specifically to do with religion, the largest share of speakers of the language is made up of Surjapuri Muslims, who live mainly in Kishanganj, the district that has about 70 per cent Muslim population.

- Bajjika, one of five dialects spoken in Bihar, is a mix of Hindi and Maithili, and is spoken mainly in Vaishali, Muzaffarpur, and parts of Sitamarhi, Sheohar and Samastipur. Bajjika is not as well known as other dialects such as Bhojpuri and Maithili.

3- (b)

- Under Article 88, the “Attorney-General of India shall have the right to speak in, and otherwise to take part in the proceedings of, either House, any joint sitting of the Houses, and any committee of Parliament of which he may be named a member”. However, he “shall not by virtue of this article be entitled to vote” in the House.
- The A-G for India is not, like the A-G for England and Wales and the A-G of the United States, a member of the Cabinet.
- Under Article 76(1), the A-G is appointed by the President from

among persons who are “qualified to be appointed a Judge of the Supreme Court”. Article 76(4) says “the Attorney-General shall hold office during the pleasure of the President, and shall receive such remuneration as the President may determine.”

4- (b)

- Small Industries Development Bank of India (SIDBI) is responsible for operationalising the Scheme.
- FFS was announced with a corpus of Rs. 10,000 crore. The corpus is to be built up over 14th and 15th Finance Commission Cycles (FY 2016-2020 and FY 2021-2025) through budgetary support by Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce & Industry, Government of India. Under FFS, support is extended to SEBI registered Alternative Investment Funds (AIFs), which in turn invest in startups.
- FFS has not only made capital available for startups at early stage, seed stage and growth stage but also played a catalytic role in terms of facilitating raising of domestic capital, reducing dependence on foreign capital and encouraging home grown and new venture capital funds.

5- (c)

- In December 2021, India announced its roughly \$10 billion dollar production-linked incentive (PLI) scheme to encourage semiconductor and display manufacturing in the country. It also announced fiscal support for a design-linked initiative (DLI) scheme to drive global and domestic investment related to design software, IP rights etc. According to the Electronics and IT Ministry, semiconductor demand in India would increase to \$70-\$80 billion by 2026 with the growing demand for digital devices and electronic products.
- The new changes announced last Wednesday seek to harmonise government incentives for all technology nodes of semiconductors, according to the Minister of State for Electronics and IT. In the previous version of the scheme, the Centre was offering to fund 30% of the project cost for 45nm to 65nm chip production, 40% for 28nm to 45nm, and 50% or half of the funding for chips 28nm or below. The modified scheme provides uniform 50% fiscal support for all nodes. Besides, it will provide 50% of capital expenditure for other steps of the process as well (chip design and ATMP).
- Close to two-thirds of all such jobs are in Asia, with China alone accounting for 42 per cent of the global total. It is followed by the European Union and Brazil with 10 per cent each and the United States and India with 7 per cent each.
- Solar energy was found to be the fastest-growing sector. In 2021 it provided 4.3 million jobs — more than a third of the total renewable energy workforce.
- The share of women in the decentralised renewable energy (DRE) workforce is still low, particularly for skilled jobs, the researchers observed. Overall, the share of women in DRE was 41 per cent in Kenya, 37 per cent in Ethiopia and Nigeria, 28 per cent in Uganda and 21 per cent in India.

7- (b)

- Every year September 26 is observed as World Environmental Health Day.
- The natural disasters, calamities, climate change and global warming across the world have created a cause of concern for our future generations. So to protect it from causing any further damage, the environmental health workforce highlights this day to encourage people to get involved in protecting our environment.

6- (a)

- The theme for this year's World Environmental Health Day 2022 is 'Strengthening Environmental Health Systems for the implementation of the Sustainable Development Goals.'

8- (c)

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**Que-1 With reference to Ram Setu, consider the following statements**

- 1- The Ram Setu, also known as Adam's Bridge, is a 48-km chain of sandstone shoals.
- 2- Between Rameswaram on India's southeast coast and Mannar Island near Sri Lanka's northwest coast.
- 3- Scientists believe Ram Setu is a natural structure formed due to tectonic movements and sand getting trapped in corals.

Which of the following given above is/are correct

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

**Que-2 Consider the following statements about Very Short Range Air Defence System (VSHORADS) missile, recently test fired**

- 1- It is an air defence system designed and developed indigenously by Hyderabad-based Research Centre Imarat of the DRDO.
- 2- The missile, meant for neutralising low altitude aerial threats at short ranges is propelled by a dual thrust solid motor.
- 3- Test fired in Chandipur off the coast of Andhra Pradesh.

Which of the following given above is/are correct

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

- c) 1, 2 and 3      d) 2 and 3 only

**Que-3 Recently which international airport named as Shaheed Bhagat Singh International Airport on the occasion of 115th birth anniversary of Shaheed e Azam Bhagat Singh**

- a) Bangaluru International Airport
- b) New Delhi International Airport
- c) Hyderabad International Airport
- d) Chandigarh International Airport

**Que-4 With reference to tropical cyclone, consider the following statements about**

- 1- A tropical cyclone is a rapidly rotating storm system characterized by a high-pressure center, a closed low-level atmospheric circulation, strong winds, and a spiral arrangement of thunderstorms that produce heavy rain and squalls.
- 2- Depending on its location and strength, a tropical cyclone is referred to by different names.
- 3- A hurricane is a strong tropical cyclone that occurs in the Atlantic Ocean or northeastern Pacific Ocean, and a typhoon occurs in the northwestern Pacific Ocean.

Which of the following given above is/are correct

- a) 1 and 2 only      b) 3 only

- c) 1, 2 and 3      d) 2 and 3 only

**Que-5 Consider the following statements about DADASAHEB PHALKE AWARD**

- 1- India's highest honour in cinema, presented by the Directorate of Film Festivals.
- 2- Asha Parekh has been conferred with the prestigious Dadasaheb Phalke Award for 2020.
- 3- The recipient receives a Swarna Kamal (Golden Lotus) medallion, a shawl and a cash prize of Rs 1 Crore.

Which of the following given above is/are correct

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

**Que-6 Consider the following statements about Kushiya River**

- 1- Flows through Assam, and then on to Bangladesh.
- 2- A distributary of the Brahmaputra River.
- 3- The waters that eventually form the Kushiya originate in the uplands of the state of Assam and pick up tributaries from Nagaland and Manipur.

Which of the following given above is/are correct

- a) 1 only      b) 1 and 3 only

- c) 1, 2 and 3      d) 2 and 3 only

**Que-7 With reference to India Cooling Action Plan, consider the following statements**

- 1- It seeks to reduce cooling demand across sectors by 20% to 25% by 2037-38.
- 2- It seeks to reduce refrigerant demand by 25% to 30% by 2037-38.
- 3- It seeks to Reduce cooling energy requirements by 25% to 40% by 2037-38.

Which of the following given above is/are correct

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

**Que-8 Consider the following statements about Potash**

- 1- It is source of Potassium, is used both for direct application as MOP (Muriate of Potash) as well as in combination with 'N' & 'P' nutrients in NPK fertilizers.
- 2- India meets 100% of its Potash requirement through imports.

Which of the following given above is/are correct

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

**ANSWER**

3- (c)

4- (d)

1- (d)

- The Ram Setu, also known as Adam's Bridge, is a 48-km chain of limestone shoals.
- The structure has significance in both Hindu and Muslim mythology — while Hindus believe this is the bridge (setu) built by Lord Ram and his army to cross to Lanka and fight Ravan, as per Islamic legend, Adam used this bridge to reach Adam's Peak in Sri Lanka, where he stood on one foot for 1,000 years in repentance.
- Scientists believe Ram Setu is a natural structure formed due to tectonic movements and sand getting trapped in corals. However, over the years, "evidence" has been offered to claim that the bridge is man-made. The bridge is not entirely natural, Hindu right wing outfits argue, which proves that it was indeed built by Lord Ram.

2- (a)

- VSHORADS missile incorporates many novel technologies including miniaturized Reaction Control System (RCS) and integrated avionics, which have been successfully proven during the tests.

- A tropical cyclone is a rapidly rotating storm system characterized by a low-pressure center, a closed low-level atmospheric circulation, strong winds, and a spiral arrangement of thunderstorms that produce heavy rain and squalls.

- Depending on its location and strength, a tropical cyclone is referred to by different names, including hurricane, typhoon, tropical storm, cyclonic storm, tropical depression, or simply cyclone.

- "Cyclone" refers to their winds moving in a circle, whirling round their central clear eye, with their winds blowing counterclockwise in the Northern Hemisphere and clockwise in the Southern Hemisphere. The opposite direction of circulation is due to the Coriolis effect. Tropical cyclones typically form over large bodies of relatively warm water. They derive their energy through the evaporation of water from the ocean surface, which ultimately condenses into clouds and rain when moist air rises and cools to saturation.

5- (a)

- The award, named after Dhundiraj Govind Phalke, who is revered as the father of Indian cinema, was instituted in 1969. The recipient receives a Swarna Kamal (Golden Lotus) medallion, a shawl and a cash prize of Rs 10 lakh.
- 6- (b)
- A distributary of the Barak river.
  - It forms on the India-Bangladesh border as a branch of the Barak River, when the Barak separates into the Kushiyara and Surma.
- 7- (c)
- Cooling requirement is cross sectoral and an essential part for economic growth and is required across different sectors of the economy such as residential and commercial buildings, cold-chain, refrigeration, transport and industries.
  - The India Cooling Action seeks to (i) reduce cooling demand across sectors by 20% to 25% by 2037-38, (ii) reduce refrigerant demand by 25% to 30% by 2037-38, (iii) Reduce cooling energy requirements by 25% to 40% by 2037-38, (iv) recognize “cooling and related areas” as a thrust area of research under national S&T Programme, (v) training and certification of 100,000 servicing sector technicians by 2022-23, synergizing with Skill India Mission. These actions will have significant climate benefits.
- The following benefits would accrue to the society over and above the environmental benefits: (i) Thermal comfort for all – provision for cooling for EWS and LIG housing, (ii) Sustainable cooling – low GHG emissions related to cooling, (iii) Doubling Farmers Income – better cold chain infrastructure – better value of produce to farmers, less wastage of produce, (iv) Skilled workforce for better livelihoods and environmental protection, (v) Make in India – domestic manufacturing of air-conditioning and related cooling equipment’s, (vi) Robust R&D on alternative cooling technologies – to provide push to innovation in cooling sector.
- 8- (c)
-