

10 PM Current Affairs Quiz Compilation

25th April to 30th April, 2022

POLITY AND GOVERNANCE

Q.1) The Olga Tellis judgement sometimes in news is related to which of the following?

- a) Right to Freedom of Religion
- b) Right to Education
- c) Right to Freedom of Speech
- d) Right to Livelihood

Answer: D

- The Olga Tellis vs Bombay Municipal Corporation judgment in 1985 ruled that eviction of pavement dwellers using unreasonable force, without giving them a chance to explain is unconstitutional. It is a violation of their right to livelihood.

Source: [Article](#)

Q.2) With reference production of coal and coal reserves in India, consider the following statements:

1. The Coal resources of India are available in older Gondwana Formations of peninsular India and younger Tertiary formations of north-eastern region.
2. Lignite is the best quality of coal with the highest carbon content.

Which of the statements given above is/are correct?

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

Answer: A

- **Statement 1 is correct:** The Coal resources of India are available in older Gondwana Formations of peninsular India and younger Tertiary formations of north-eastern region. Based on the results of Regional/Promotional Exploration, where the boreholes are normally placed 1-2 Km apart, the resources are classified into 'Indicated' or 'Inferred' category
- **Statement 2 is incorrect:** Anthracite is the best quality of coal which carries 80 to 95 per cent carbon content. It ignites slowly with a blue flame. It has the highest calorific value. It is found in small quantity in Jammu and Kashmir.

Source: [Article](#)

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Q.3) With reference to Wet bulb temperature, consider the following statements:

1. It is the temperature of adiabatic saturation.
2. The wet bulb temperature is always lower than the dry bulb temperature but will be identical with 100% relative humidity.

Which of the statements given above is/are correct?

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

Answer: c

- **Statement 1 is correct:** The Wet Bulb temperature is the temperature of adiabatic saturation. This is the temperature indicated by a moistened thermometer bulb exposed to the air flow.
- **Statement 2 is correct:** The wet bulb temperature is always lower than the dry bulb temperature but will be identical with 100% relative humidity (the air is at the saturation line). A wet-bulb temperature of 31°C is exceedingly harmful to humans, while a temperature of 35°C is unsurvivable for more than 6 hours.

Source: [Article](#)

Q.4) With reference to Heatwaves and Urban Heat Islands, consider the following statements:

1. Heat islands can occur year-round during the day or night.
2. The maximum heat island effect is often three to five hours after dawn.

Which of the statements given above is/are incorrect?

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

Answer: b

- **Statement 1 is correct:** Heat islands can occur year-round during the day or night.
- **Statement 2 is incorrect:** Urban-rural temperature differences are often largest during calm, clear evenings. This is because rural areas cool off faster at night than cities, which retain much of the heat stored in roads, buildings, and other structures. As a result, the largest urban-rural temperature difference, or maximum heat island effect, is often three to five hours after sunset.

Source: [Article](#)

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Q.5) With reference to Lithium, consider the following statements:

1. It has the lowest density of all metals.
2. It is used in rechargeable batteries for mobile phones, laptops, digital cameras and electric vehicles.
3. Lithium is abundantly available in India.

Which of the statements given above is/are incorrect?

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

Answer: c

Lithium is an alkali metal. It has the lowest density of all metals.

- The most important use of lithium is in rechargeable batteries for mobile phones, laptops, digital cameras and electric vehicles.
- But as well as the lithium-ion batteries for which it has grown in popularity, the highly reactive and flammable alkali mineral – sometimes referred to as “white gold” – is also used in ceramics and glass, lubricating greases, polymer production, and air treatment.
- According to the latest figures from the US Geological Survey (USGS), global lithium production in 2018 reached around 85,000 tonnes – up from 69,000 in the previous year.
- Continued exploration efforts have seen global lithium resource estimates reach 62 million tonnes – a significant proportion of which are located in South America’s “lithium triangle” – an area encompassing Chile, Argentina and Bolivia.
- India currently imports all its lithium needs.
- It imported lithium batteries worth \$1.2 billion in fiscal 2019, up from \$384 million in FY17.
- Recently researchers at the Atomic Minerals Directorate, a unit of India’s Atomic Energy Commission, have estimated lithium reserves of 14,100 tonnes in a patch of land surveyed in Mandya, 100 km from Bengaluru.

Q.6) Which of the following rivers is/are the tributary of Krishna river?

1. Musi
2. Hemavati
3. Mallaprabha

Select the correct answer from the codes given below;

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

Answer: C

Krishna River originates near Mahabaleshwar (Satara) in Maharashtra. It is the second biggest river in peninsular India after the Godavari River.

Tungabhadra, Mallaprabha, Koyna, Bhima, Ghataprabha, Yerla, Warna, Dindi, Musi and Dudhganga are the tributaries of Krishna river.

Note: Hemavati, Kabini, Suvarnavathi and Bhavani are tributaries of Cauvery River.

Source: [Indian Express](#)

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Q.7) With reference to Kuril Island Dispute, consider the following statements:

1. The island chain is part of the belt of geologic instability circling the Pacific Ring of Fire.
2. The island is disputed between Japan and China.

Which of the statements given above is/are correct?

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

Answer: a

Statement 1 is correct: The Kuril Islands are stretched from the Japanese island of Hokkaido to the southern tip of Russia's Kamchatka Peninsula separating the Okhotsk Sea from the North Pacific Ocean.

The chain is part of the belt of geologic instability circling the Pacific (Ring of Fire) and contains at least 100 volcanoes, of which 35 are still active, and many hot springs.

Statement 2 is incorrect: The island is disputed between Japan and Russia.

Source: [The Hindu](#)

Q.8) With reference to Raisina Dialogue, consider the following statements:

1. It is a multilateral conference committed to addressing the most challenging issues facing the global community.
2. It is hosted by Ministry of Finance.

Which of the statements given above is/are correct?

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

Answer: A

Statement 1 is correct: It is a multilateral conference committed to addressing the most challenging issues facing the global community.

Statement 2 is incorrect: The conference is hosted by the Observer Research Foundation in collaboration with the Ministry of External Affairs.

Source: [All India Radio](#)

Q.9) All-India Household Consumer Expenditure Survey is conducted by which of the following organisation?

- a) National Sample Survey Organisation (NSSO)
- b) National Statistical Office (NSO)
- c) NITI Aayog
- d) Central Statistics Office (CSO)

Answer: B

The All-India Household Consumer Expenditure Survey, usually conducted by the National Statistical Office (NSO) every five years, is set to resume this year after a prolonged break.

Source: [The Hindu](#)

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Q.10) With reference to Aeroponics, consider the following statements:

1. In this method the roots are suspended in the air and plants grow in a humid environment without soil.
2. This technique enables farmers to control humidity, temperature, pH levels and water conductivity inside a greenhouse.

Which of the statements given above is/are correct?

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

Answer: C

Both the statements are correct.

Aeroponics is an environment-friendly way of farming in which the roots are suspended in the air and plants grow in a humid environment without soil.

It is a variation of hydroponics where both growing medium and flowing water are absent. The roots of the plants, in this method, are sprayed with water and nutrient solution.

This technique enables farmers to control humidity, temperature, pH levels and water conductivity inside a greenhouse.

Source: [Indian Express](#)

PIB

PRELIMS

Q.1) With reference to One District One Product (ODOP) Scheme, consider the following statements:

1. The One District One Product initiative has been operationally merged with the 'Districts as Export Hub' initiative.
2. One of the aims of ODOP is to identify one product per district based on the potential and strength of a district and national priorities.

Which of the statements given above is/are correct?

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

Answer: C

- **Statement 1 is correct:** The One District One Product initiative has been operationally merged with the 'Districts as Export Hub' initiative. Later is implemented by the Director-General of Foreign Trade (DGFT), Department of Commerce.
- **Statement 2 is correct:** Aim of the ODOP is to identify one product per district based on the potential and strength of a district and national priorities. A cluster for that product will be developed in the district and market linkage will be provided for that.

Source: [Article](#)

Q.2) With reference to Free Trade Agreements, consider the following:

1. Under FTAs, two or more countries or trading blocs primarily agree to reduce or eliminate customs tariff and non-tariff barriers on substantial trade between them.
2. FTAs and Preferential Trade Agreements (PTAs), both maintain a positive list of products on which duty is to be reduced.

Which of the statements given above is/are correct?

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

Answer: a

- **Statement 1 is correct:** FTAs are arrangements between two or more countries or trading blocs that primarily agree to reduce or eliminate customs tariff and non-tariff barriers on substantial trade between them, but (in contrast to a common market) capital or labor may not move freely.
- **Statement 2 is incorrect:** The key difference between an FTA and a PTA is that while in a PTA there is a positive list of products on which duty is to be reduced; in an FTA there is a negative list on which duty is not reduced or eliminated.

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Q.3) With reference to Hubble Space Telescope, consider the following statements:

1. Hubble currently sits at the Earth-Sun L2 Lagrange point.
2. While Hubble can see the equivalent of toddler galaxies, the James Webb Space Telescope will be able to see baby galaxies.

Which of the statements given above is/are correct?

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

Answer: b

- **Statement 1 is incorrect:** Hubble orbits the Earth at an altitude of ~570 km. Webb will not orbit the Earth, instead it will sit at the Earth-Sun L2 Lagrange point, 1.5 million km away
- **Statement 2 is correct:** Hubble can see the equivalent of “toddler galaxies”, On the other hand, Webb will be able to see “baby galaxies”. This is because Webb is an infrared telescope, and can see distant objects which are very dim at visible wavelengths of light.

Source: [Article](#)

Q.4) Arrange the following islands from North to South:

1. Honshu
2. Kyushu
3. Hokkaido
4. Shikoku

Select the correct answer from the codes given below:

- a) 1-3-2-4
- b) 3-1-4-2
- c) 1-3-4-2
- d) 3-1-2-4

Answer: b

The correct order from North to South is -

- Hokkaido
- Honshu
- Shikoku
- Kyushu

Q.5) Which of the following practice(s) does not use soil as a medium?

1. Aquaponics
2. Hydroponics
3. Aeroponics

Select the correct answer from the codes given below:

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

Answer: d

- **Aquaponics:** Aquaponics involves growing fishes and plants together within the same environment, which is considered to be a sustainable process.
- **Hydroponics:** On the other hand, hydroponics is a gardening method that allows for plants to be grown without the use of soil.
- **Aeroponics:** Aeroponics is the practice of growing plants in an air or mist environment without the use of any substrate

Source: [Article](#)

Q.6) With reference to Blue Stragglers, consider the following statements:

1. These are hot, blue, massive stars and seem to have a different trajectory of evolution from the norm.
2. Blue Stragglers are not massive and less energetic.

Which of the statements given above is/are correct?

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

Answer: A

Statement 1 is correct: Blue Straggler Stars are hot, blue, massive stars and seem to have a different trajectory of evolution from the norm.

Statement 2 is incorrect: Blue Stragglers are more massive and energetic.

Source: [The Hindu](#)

Q.7) Which of the following is/are the advantages of Vertical Farming?

1. Resistant to weather disruptions
2. Prevent ecosystem disruption
3. Less disruptive to the native plants

Select the correct answer from the codes given below;

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

Answer: D

All are advantages of vertical farming.

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Increased crop yield: The main advantage of utilizing vertical farming technologies is the increased crop yield that comes with a smaller unit area of land requirement. The increased ability to cultivate a larger variety of crops at once is because crops do not share the same plots of land. Vertical farming allows for, in some cases, over ten times the crop yield per acre than traditional methods.

Resistant to weather disruptions: Crops are resistant to weather disruptions because of their placement indoors. In other words less crops are lost to extreme or unexpected weather occurrences. The issue of adverse weather conditions is especially relevant for countries depending upon monsoon like India.

Prevent ecosystem disruption: Because of its limited land usage, vertical farming is less disruptive to the native plants and animals, leading to further conservation of the local flora and fauna. Traditional farming is often invasive to the native flora and fauna because it requires such a large area of arable land.

Environment conservation: Vertical farming can help in preventing climate change and conserve the environment. Deforestation and desertification caused by agricultural encroachment on natural biomes could be avoided. Producing food indoors reduces or eliminates conventional plowing, planting, and harvesting by farm machinery, protecting soil, and reducing emissions.

Source: [Indian Express](#)

Q.8) India Patents report is released by which of the following organisation?

- a) Department for Promotion of Industry and Internal Trade
- b) National Association of Software and Services Companies(NASSCOM)
- c) NITI Aayog
- d) Ministry of Commerce and Industry

Answer: B

The National Association of Software and Services Companies(NASSCOM) is releasing the India Patents report.

The report is one among a series of Nasscom's Emerging Technology-focused reports that aim to understand how Indian technology companies are creating IP assets in their largest market.

Source: [The Hindu](#)

Q.9) Earendel was recently seen in news is related to which of the following statements;

- a) Newly planned mission of NASA to Mercury
- b) A habitable planet discovered by Indian Scientists
- c) Most distant star discovered by the Hubble Space Telescope
- d) A potentially hazardous Near earth Asteriod

Answer: C

NASA's Hubble Space Telescope has discovered the farthest star ever seen to date. They have nicknamed that star as "Earendel".

Source: [Indian Express](#)

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Q.10) With reference to Malaria, consider the following statements:

1. India is the only high endemic country which has reported a decline of 17.6% in 2019 as compared to 2018.
2. Plasmodium falciparum and Plasmodium vivax poses low Malaria threat compares to other malaria parasites.

Which of the statements given above is/are incorrect?

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

Answer: b

- **Statement 1 is correct:** Heat islands can occur year-round during the day or night.
- **Statement 2 is incorrect:** There are 5 parasite species that cause malaria in humans, and 2 of these species – Plasmodium falciparum and Plasmodium vivax – pose the greatest threat.

Source: [Indian Express](#)

PRELIMS

Q.1) With reference to Cobalt, consider the following statements:

1. The largest global deposits of Cobalt are in China.
2. There is no production of cobalt in the India from primary cobalt resources.

Which of the statements given above is/are correct?

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

Answer: b

- **Statement 1 is incorrect:** It is found all over the world in countries such as in Australia, Canada, China, Cuba, South Africa, the United States and the Philippines. But 70% of the total supply comes from one country, the Democratic Republic of the Congo (DRC). Also, the world's largest deposit of Cobalt is present in DRC.
- **Statement 2 is correct:** Presently, **there is no production of cobalt in the country from primary cobalt resources.** The demand for cobalt is usually met through imports. Refining capacity of cobalt in India is estimated at about 2,060 tonnes per year.

Source: [Article](#)

Q.2) Restriction of Floor Space Index to low levels can create which of the following issues?

1. Push development to the peri-urban areas
2. Reduction of availability of serviced land within cities
3. Increases commuting distances

Select the correct answer from the codes given below:

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

Answer: d

- Restricting the FSI to such low levels **a)** creates distortions in the land market, **b)** pushes development to the peri-urban areas, **c)** reduces availability of serviced land within cities, particularly for low-income groups, **d)** increases commuting distances and their environmental costs.

Source: [Article](#)

Q.3) International Cyber Engagement Strategy sometimes seen in news has been launched by which of the following countries?

- a) Australia
- b) USA
- c) China
- d) India

Answer: a

- India will now be included in a core Australian initiative called the International Cyber Engagement Strategy — it began in 2017 to actively conduct capacity-building arrangements in Indonesia, Singapore and Thailand, and support similar activities in Malaysia, Vietnam and Cambodia. In 2021 Australia added critical technologies to the initiative, making it important to the bilateral partnership with India and to the Quad.

Source: [Article](#)

Q.4) With reference to mRNA vaccine, consider the following statements:

1. To produce an mRNA vaccine, scientists produce a synthetic version of the mRNA that a virus uses to build its infectious proteins.
2. mRNA in such vaccines can also trigger the innate immune system.

Which of the statements given above is/are correct?

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

Answer: c

- **Statement 1 is correct:** To produce an mRNA vaccine, scientists produce a synthetic version of the mRNA that a virus uses to build its infectious proteins.
- **Statement 2 is correct:** There are two parts to our immune system: innate (the defences we're born with) and acquired (which we develop as we come into contact with pathogens). Interestingly, mRNA in vaccines could also trigger the innate immune system, providing an extra layer of defence without the need to add adjuvants.

Source: [Article](#)

Q.5) With reference to the Sun, consider the following statements:

1. The Sun rotates more quickly at its equator than at its poles.
2. Sunspots are darker and at higher temperature than other areas of the Sun.

Which of the statements given above is/are correct?

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

Answer: a

- **Statement 1 is correct.** Since the Sun is a ball of gas/plasma, it does not have to rotate rigidly like the solid planets and moons do. In fact, the Sun's equatorial regions rotate faster (taking only about 24 days) than the polar regions (which rotate once in more than 30 days).

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- This differential rotation persists to about a third of the way inside the Sun, where the rotation becomes uniform from pole to pole.
- **Statement 2 is incorrect:** Sunspots are areas that appear dark on the surface of the Sun. They appear dark because they are cooler than other parts of the Sun's surface. Solar flares are a sudden explosion of energy caused by tangling, crossing or reorganizing of magnetic field lines near sunspots.

Q.6) With reference to the space equity action plan, consider the following statements:

1. The plan tracks progress toward improved diversity, equity, inclusion, and accessibility both internally and externally in the space sector.
2. The plan is released by the European Space Agency.

Which of the statements given above is/are correct?

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

Answer: A

Statement 1 is correct: The plan tracks progress toward improved diversity, equity, inclusion, and accessibility both internally and externally in the space sector.

Statement 2 is incorrect: The plan is released by the NASA.

Source: [The Hindu](#)

Q.7) International Religious Freedom Report 2022 is released by which of the following organization?

- a) International Association for Religious Freedom
- b) United States Commission on International Religious Freedom(USCIRF)
- c) National Religious Broadcasters
- d) Religions for Peace

Answer: B

The United States Commission on International Religious Freedom(USCIRF) has released the International Religious Freedom Report 2022.

USCIRF has recommended for the second year in the row to put India on the Countries of Particular Concern(CPCs) list for the worst violations of religious freedoms in 2021.

Source: [The Hindu](#)

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Q.8) With reference to Trilateral Development Corporation(TDC) Fund, consider the following statements:

1. The fund provides an alternative to the Chinese development partnership model.
2. The fund is launched by Japan, India and Australia.

Which of the statements given above is/are incorrect?

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

Answer: b

- **Statement 1 is correct:** The fund provides an alternative to the Chinese development partnership model that has pushed parts of the developing world into a debt trap.
- **Statement 2 is incorrect:** The fund is launched by Ministry of External Affairs. The fund would involve private sectors with state support for big-ticket investments in the Indo-Pacific region as well as other geographies.

Source: [Economic Times](#)

Q.9) With reference to Bollard Pull, consider the following statements:

1. Bollard pull can be defined as the thrust developed by the propulsion systems when it has high speed.
2. It is a measure of the pulling power of a vessel, comparable to the horsepower rating of conventional vehicle engines.

Which of the statements given above is/are incorrect?

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

Answer: A

- **Statement 1 is correct:** Bollard Pull can be defined as the thrust that is developed by the propulsion systems of any vessel when it has a zero speed in the forward direction.
- **Statement 2 is incorrect:** It is a measure of the pulling power of a vessel, comparable to the horsepower rating of conventional vehicle engines.

Source: [All India Radio](#)

Q.10) With reference to gravitational lensing, consider the following statements:

1. It is an effect of Einstein's theory of general relativity – simply put, mass bends light.
2. The lensing helps astronomers to detect the distribution of dark matter in the Universe.

Which of the statements given above is/are incorrect?

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

Answer: C

Both the statements are correct.

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A gravitational lens can occur when a huge amount of matter, like a cluster of galaxies, creates a gravitational field that distorts and magnifies the light from distant galaxies that are behind it but in the same line of sight.

The effect is like looking through a giant magnifying glass.

Significance: This effect allows researchers to study the details of early galaxies too far away to be seen with current technology and telescopes.

First Predicted by: This effect was predicted to exist by Albert Einstein's General Theory of Relativity in the early 20th century.

Source: [Indian Express](#)



PRELIMS

Q.1) Consider the following statements regarding Debt Recovery Tribunals

1. They are established under the Securitisation and Reconstruction of Financial Assets and Enforcement of Securities Interest (SARFAESI) Act
2. An application for recovery of debt can be made to the DRTs for all debts valued at more than 20 lakhs.

Which of the statements given above is/are correct?

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

Answer: b

About Debt Recovery Tribunals (DRT):

- Debt Recovery Tribunals have been established following the passing of the Recovery of Debts due to Banks and Financial Institutions Act (RDDBFI), 1993.
- The primary goal and function of DRT is the recovery of loaned money from borrowers which is owed to banks and financial institutions from customers.
- This Tribunal is also the second court of appeal in respect of cases filed under The Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest (SARFAESI) Act, 2002.

Jurisdiction:

- An application for recovery of debt can be made to the DRTs for all debts valued at more than 20 lakhs. For lesser amounts, the banks and financial institutions can approach Civil Courts.
- No court in the country other than the Supreme Court (SC) and the High Court (HC) and that too only under articles 226 and 227 of the Constitution have jurisdiction against a judgment of DRAT.

Q.2) Which among the following categories is/are taken into consideration while calculating Labour Force Participation Rate (LFPR)?

1. People b/w age of 18 to 60 years
2. Housewives
3. Unemployed, willing to work and actively looking for a job.

Select the correct answer from the codes given below:

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

Answer: c

The labour force participation rate is the percentage of the working population aged 16 to 64 that are currently employed or looking for work in the economy. Anybody who is still in school, housewives, and people over the age of 64 are excluded from the labour force.

Source: Article

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

1. Hydrogen fuel cell vehicles are more ideal for long-haul transportation than the Li-Ion batteries.
2. Hydrogen manufacturing requires a minimal amount of water.

Which of the statements given above is/are correct?

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

Answer: a

- **Statement 1 is correct:** Hydrogen fuel can help in the **decarbonisation** of India's transport sector and India's industrial sector, like iron and steel, aluminium, copper sectors. In comparison, the hydrogen **fuel cell vehicles** are more ideal for **long-haul transportation** than the Li-Ion batteries. They have the capacity for **faster fuelling** and **long-driving range**.
- **Statement 2 is incorrect:** The hydrogen manufacturing **requires a lot of water** (For example, production of 1 kg of hydrogen by electrolysis requires around nine litres of water). Therefore, water scarcity could also pose a challenge. It can **increase the cost of production** of hydrogen fuel.

Source: [Article](#)

Q.4) Kedar Nath judgement sometimes in news is related to which of the following?

- a) Sedition law
- b) Temple entry of women
- c) Hate speech
- d) President's rule

Answer: a

- In the landmark 1962 Kedar Nath Singh case, the Supreme Court upheld the constitutional validity of the sedition law, it attempted to restrict its scope for misuse. The court held that unless accompanied by an incitement or call for violence, criticism of the government cannot be labelled sedition.

Source: [Article](#)

Q.5) Occupational accidents and diseases can lead to which of the following consequences?

1. Presenteeism
2. Productivity losses
3. Staff-turnover costs

Select the correct answer from the codes given below:

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

Answer: d

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- Occupational accidents and diseases entail **economic losses** for enterprises and economies.
- They lead to **presenteeism** (working with less effectiveness), productivity losses associated with permanent impairment, and staff-turnover costs (i.e., loss of skilled staff). At national level, they can cost 5.4% of the global GDP annually.

Source: [Article](#)

Q.6) With reference to the Council of Ministers in a State, consider the following statements;

1. Council of Ministers in a State shall not exceed 10% of the total number of members of the Legislative Assembly of that State.
2. The number of Ministers, including the Chief Minister in a State should not be less than twelve.

Which of the statements given above is/are correct?

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

Answer: B

The Constitution (91st Amendment) Act, 2003 inserted clause 1A in Article 164. This include, **Statement 1 is incorrect:** Council of Ministers in a State shall not exceed 15% of the total number of members of the Legislative Assembly of that State.

Statement 2 is correct: The number of Ministers, including the Chief Minister in a State should not be less than twelve.

Source: [Indian Express](#)

Q.7) With reference to Governor's role in State Universities, consider the following statements:

1. The Governor of the state is the ex-officio chancellor of the universities in that state.
2. As Chancellor governor acts independently of the Council of Ministers and takes his own decisions on all University matters.

Which of the statements given above is/are correct?

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

Answer: C

Both the statements are correct.

The Governor of the state is the ex-officio chancellor of the universities in that state. While as Governor he functions with the aid and advice of the Council of Ministers, as Chancellor he acts independently of the Council of Ministers and takes his own decisions on all University matters.

Source: [Indian Express](#)

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Q.8) Kwar Hydro Electric Project which is recently seen in news is located in which of the following state/UTs?

- a) Tamil Nadu
- b) Karnataka
- c) Jammu and Kashmir
- d) Arunachal Pradesh

Answer: C

The Cabinet Committee on Economic Affairs (CCEA) has recently approved the investment of Rs.4526.12 crore for 540 Megawatt (MW) Kwar Hydro Electric Project located on river Chenab, in Kishtwar district of Union Territory of Jammu and Kashmir.

Source: [Business Standard](#)

Q.9) With reference to Health Professional Registry (HPR), consider the following statements:

- 1. It is a comprehensive repository of all healthcare professionals involved in delivery of healthcare services in modern medicine alone.
- 2. It is one of the core building block of the Ayushman Bharat Digital Mission (ABDM).

Which of the statements given above is/are correct?

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

Answer: B

- **Statement 1 is incorrect:** Health Professional Registry (HPR) is a comprehensive repository of all healthcare professionals involved in delivery of healthcare services across both modern and traditional systems of medicine.
- **Statement 2 is correct:** It is one of the core building block of the Ayushman Bharat Digital Mission (ABDM).

Source: [PIB](#)

Q.10) Which of the following is/are the benefits of Open Network for Digital Commerce (ONDC)?

- 1. Reduce the unfair trade practices of e-commerce players.
- 2. Unify multiple smaller players.
- 3. Curbing digital monopoly in the e-commerce sector.

Select the correct answer from the codes given below:

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

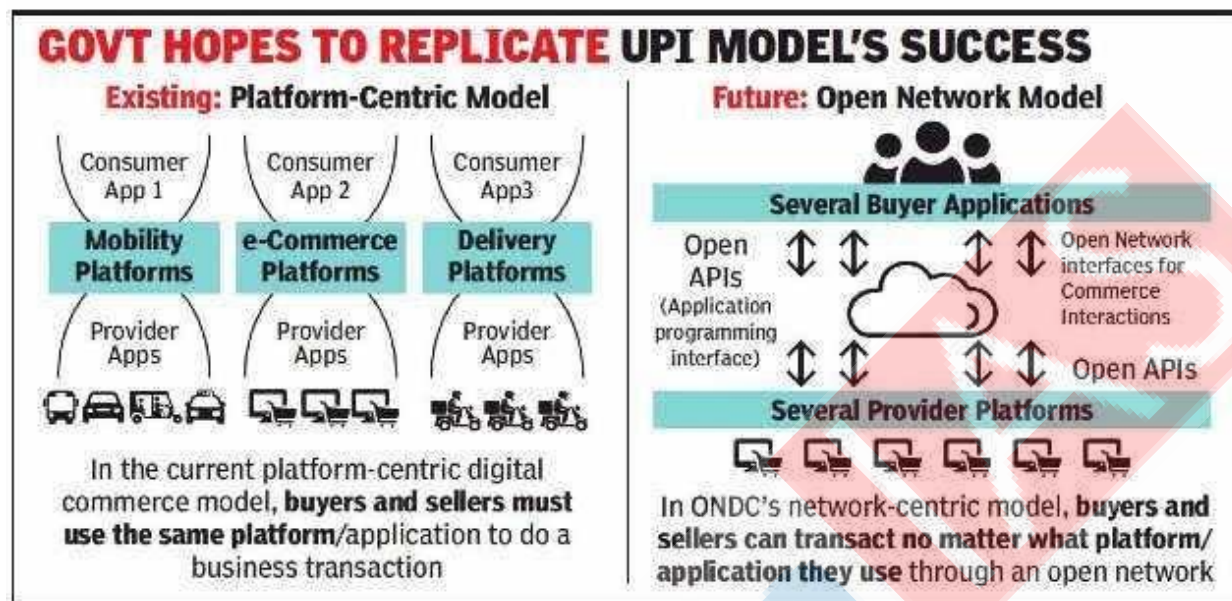
Answer: d

The **Unified Payment Interface (UPI)** has disrupted the digital payments' domain. ONDC seeks to achieve something similar for e-commerce.

It aims to democratise digital commerce by moving it away from platform-centric models like Amazon and Flipkart to an open network.

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This will enable more sellers to be digitally visible. The transactions will also be executed through an open network.



Source: TOI

The implementation of ONDC will provide the following advantages,

- Reduce the unfair trade practices of e-commerce players.
- Unify multiple smaller players.
- Curbing digital monopoly in the e-commerce sector.

Source: [Business Standard](#)

INTERNATIONAL RELATIONS

Q.1) Five Eyes, an intelligence alliance, sometimes seen in news consists of which of the following countries?

1. USA
2. UK
3. New Zealand

Select the correct answer from the codes given below:

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

Answer: d

- The Five Eyes is an intelligence alliance comprising Australia, Canada, New Zealand, the United Kingdom, and the United States. These countries are parties to the multilateral UKUSA Agreement, a treaty for joint cooperation in signals intelligence.

Source: [Article](#)

Q.2) Consider the following statements:

1. It was built in 1325 by the then Sultan Firoz Shah Tughlaq.
2. It later became the residence of the descendants of the Nawab of Awadh.
3. The monument is not ASI-protected.

Which of the following is referenced in the statements given above?

- a) Malcha Mahal
- b) Bobbili fort
- c) Hawa Mahal
- d) Bellamkonda Fort

Answer: a

- The heritage structure is basically located in the Chanakyapuri area, next to Delhi Earth Station of the Indian Space Research Organisation. It was built in 1325 by the then Sultan Firoz Shah Tughlaq and was, for long, used as a hunting lodge.
- It later became the residence of the **descendants of the Nawab of Awadh**. It is said that it came to be known as 'Wilayat Mahal' after Begum Wilayat Mahal of Awadh, who claimed that she was a member of the royal family of Oudh. She was given the palace by the government in 1985.
- According to a PTI report, **the monument is not ASI-protected** and, therefore, no attention was paid to it in all these years in order to conserve it. But now, sources have revealed that there is a proposal being prepared to restore Malcha Mahal and make it into a place that may lure history enthusiasts.

Source: [Article](#)

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Q.3) Arrange the following seas from North to South:

1. Coral
2. Solomon
3. Bismarck

Select the correct answer from the codes given below:

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

Answer: d

The correct order from North to South is -

- Bismarck
- Solomon
- Coral

Source: [Article](#)

Q.4) With reference to Nurturing Neighborhoods Challenge, consider the following statements:

1. It aims to provide technical support and capacity-building to develop solutions that enhance the quality of life of young children in cities.
2. Only the Smart Cities under the Smart City mission are eligible for the challenge.

Which of the statements given above is/are correct?

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

Answer: a

- **Statement 1 is correct:** The Nurturing Neighbourhoods Challenge is a 3-year initiative that aims to work with Indian cities and their partners to pilot and scale ways to improve public space, mobility, neighborhood planning, access to early childhood services and amenities, and data management across city agencies.
 - The Challenge aims to propagate an early childhood centric approach among Indian cities, helping urban planners, architects, engineers, and city managers to implement pilots and scale up solutions using the Infant, Toddler, Caregiver-Friendly Neighborhood (ITCN) Framework.
- **Statement 2 is incorrect:** The Challenge is open to all Indian cities with population above 5 lakhs, Smart Cities, and capitals of States/Union Territories.

Q.5) Which of the following factors make demand of a product inelastic?

1. High competition in product category
2. No close substitute for the product

Select the correct answer using the code given below:

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

Answer: b

The inelastic demand occurs when the demand for a product doesn't change as much as the price. Inelastic demand is one of the three types of demand elasticity. It describes how much demand changes when the price does. The other two are:

-Elastic demand is when changes in price impact the quantity demanded.

-Unit elastic demand is when changes in price cause an equal change in demand.

Major factors for a product having an inelasticity of demand are:

- **No substitutes:** if there is an easy substitute for a good or service, the substitute makes the demand for the good more elastic.
- **Having little or no competition in the market:** if a firm has monopoly power, then it is able to charge higher prices

Q.6) With reference to the Bird Flu, consider the following statements;

1. All avian influenza viruses infect humans.
2. There is no vaccine against H5N1.

Which of the statements given above is/are correct?

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

Answer: B

Statement 1 is incorrect: Most avian influenza viruses do not infect humans, however, some, such as A(H5N1) and A(H7N9), have caused serious infections in people.

Statement 2 is correct: There is no vaccine against H5N1.

Source: [Indian Express](#)

Q.7) Consider the following statements;

1. The British called him the 'father of the irrigation department'.
2. He built Malcha Mahal in Delhi.
3. He established towns such as Fatehabad, Jaunpur and Hissar.

Which of the following person is referenced in the statements given above?

- a) Babur
- b) Muhammad bin Tughlaq
- c) Akbar
- d) Firoz Shah Tughlaq

Answer: D

Source: [Indian Express](#)

Q.8) With reference to MSME Sustainable (ZED) Certification Scheme, consider the following statements:

1. The Scheme aims to create awareness amongst MSMEs about Zero Defect Zero Effect (ZED) practices.
2. Through this scheme MSMEs can reduce wastage substantially, increase productivity and enhance environmental consciousness.

Which of the statements given above is/are correct?

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

Answer: C

Both the statements are correct.

The scheme aims to create awareness amongst MSMEs about Zero Defect Zero Effect (ZED) practices and motivate and incentivise them for ZED Certification while also encouraging them to become MSME Champions.

Through the ZED Certification, MSMEs can reduce wastage substantially, increase productivity, enhance environmental consciousness, save energy, optimally use natural resources, and expand their markets amongst others.

Source: [Indian Express](#)

Q.9) With reference to the GAGAN, consider the following statements:

1. It is developed by the Airport Authority of India (AAI) and Indian Space Research Organization (ISRO).
2. GAGAN uses a system of satellite signals alone to provide necessary augmentation to the GPS navigation signal.

Which of the statements given above is/are correct?

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

Answer: A

Statement 1 is correct: It is developed by the Airport Authority of India(AAI) and the Indian Space Research Organization(ISRO).

Statement 2 is incorrect: GAGAN uses a system of ground stations – in Delhi, Guwahati, Kolkata, Ahmedabad, Thiruvananthapuram, Bengaluru, Jammu and Port Blair – to provide necessary augmentation to the GPS navigation signal.

Source: [Indian Express](#)

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Q.10) Internet Treaties and Nice Agreement sometimes seen in news is related to which of the following?

- a) Global Telecommunications
- b) Cyber security
- c) Intellectual Property Rights
- d) Aviation sector

Answer: C

World Intellectual Property Organization(WIPO) Performances and Phonograms Treaty and WIPO Copyright Treaty collectively known as the WIPO Internet Treaties.

The Nice Agreement establishes a classification of goods and services for the purposes of registering trademarks and service marks.

Source: [Economic Times](#)

PRELIMS

Q.1) With reference to Papier-mâché in Kashmir, consider the following statements:

1. Saint Mir Sayyid Ali Hamadani from Persia is said to have brought this craft to Kashmir.
2. It is based primarily on creating colourful utility and decorative objects using walnut trees.

Which of the statements given above is/are correct?

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

Answer: a

- **Statement 1 is correct:** Saint Mir Sayyid Ali Hamadani from Persia is said to have brought this craft to Kashmir.
- **Statement 2 is incorrect:** It is based primarily on creating colourful utility and decorative objects using paper pulp.

Q.2) With reference to the Representation of the People Act 1951, consider the following statements:

1. Every election candidate is to keep an account of all expenditure in connection with the election incurred or authorised by him.
2. If a person who is already a member of the Loksabha is chosen a member of the Rajyasabha, his seat in the Loksabha shall become vacant.

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

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

Answer: c

- **Statement 1 is correct:** Article 77(1) of the Representation of the People Act, 1951 states that every candidate at an election shall, either by himself or by his election agent, keep a separate and correct account of all expenditure in connection with the election incurred or authorized by him or by his election agent between the date on which he has been nominated] and the date of declaration of the result.
- **Statement 2 is correct:** Article 69 of the Representation of the People Act, 1951 states that if a person who is already a member of the House of the People and has taken his seat in such House is chosen a member of the Council of States, his seat in the House of the People shall, on the date on which he is so chosen, become vacant.
 - Further, if a person who is already a member of the Council of States and has taken his seat in such Council is chosen a member of the House of the People, his seat in the Council of States shall, on the date on which he is so chosen, become vacant.

Q.3) Which of the following materials is a semiconductor?

1. Silicon
2. Gallium arsenide
3. Germanium

Select the correct answer from the codes given below:

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

Answer: d

- All materials are semiconductors.

Source: [Article](#)

Q.4) With reference to Heatwaves in India, consider the following statements:

1. The threshold of maximum temperature for the declaration of a heatwave is lower for plains than hilly regions.
2. A heatwave occurs due to the movement of high atmospheric pressure into an area.

Which of the statements given above is/are correct?

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

Answer: b

- **Statement 1 is incorrect:** Quantitatively, Heatwave is defined based on the temperature thresholds over a region in terms of actual temperature or its departure from normal. For instance, Heatwave will be declared if the maximum temperature of a station reaches at least 40 °C or more for plains and at least 30 °C or more for Hilly regions.
- **Statement 2 is correct:** A heatwave occurs due to movement of high atmospheric pressure into an area and lasts for two more days. In such a condition, air from the upper levels of our atmosphere is pulled towards the ground. It then gets compressed and triggers a rise in temperatures. The high pressure makes it difficult for other weather systems to move into the area. Movement of winds therefore becomes non-existent. The high-pressure system also bars clouds from entering the region and sunlight can further heat the system.

Source: [Article](#)

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Q.5) With reference to rules governing the service and resignation of IAS officers, consider the following statements:

1. An IAS Officer who resigns from the service is still entitled for retirement benefits.
2. An officer serving in a cadre (state) must submit his/her resignation to the chief secretary of the state.

Which of the statements given above is/are correct?

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

Answer: b

- **Statement 1 is incorrect:** Those who take Voluntary Retirement Scheme (VRS) are entitled to pension, whereas those who resign are not.
- **Statement 2 is correct:** An officer serving in a cadre (state) must submit his/her resignation to the **chief secretary of the state**. An officer who is on central deputation is required to submit his/her resignation to the **secretary of the concerned Ministry or Department**.

Source: [Article](#)

Q.6) With reference to Museums Grant Scheme, consider the following statements:

1. The scheme aims to develop at least 1 Central / State Government Museum located in the State Capital each year.
2. The Ministry of Culture provides financial assistance under the Scheme.

Which of the statements given above is/are correct?

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

Answer: C

Both the statements are correct.

The Ministry of Culture and Tourism has granted Rs 3.75 crore under the 'Upgradation of Museums Scheme' as part of Museums Grant Scheme for the Rs 5-crore project in Eluru town, Andhra Pradesh.

About the scheme:

Aim: To strengthen and modernize the existing museums at the Regional, State and District level.

To develop at least 1 Central / State Government Museum located in the State Capital each year.

The Ministry of Culture provides financial assistance under the Scheme to the State Governments and Societies, Autonomous bodies, Local Bodies and Trusts registered under the Societies Act 1860, for setting up new Museums.

Source: [The Hindu](#)

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Q.7) With reference to Centre for Development of Advanced Computing (C-DAC), consider the following statements:

1. India's first supercomputer PARAM 8000 was indigenously built by the C-DAC.
2. It functions under the Ministry of Science and Technology.

Which of the statements given above is/are correct?

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

Answer: A

Statement 1 is correct: India's first supercomputer PARAM 8000 was indigenously built (in 1991) by the Centre for Development of Advanced Computing.

Statement 2 is incorrect: C-DAC is a premier Research and Development organization of the Ministry of Electronics and Information Technology (MeitY).

Source: [PIB](#)

Q.8) With reference to Palm oil, consider the following statements:

1. India is the biggest importer of palm oil.
2. Canada and Argentina together account for almost 90% of the global palm oil production.
3. The use of crude palm oil in making biodiesel is being branded as 'green diesel'.

Which of the statements given above is/are correct?

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

Answer: C

Statement 1 is correct: India is the biggest importer of palm oil. The prices of palm oil rose this year as demand increased because of the short supply of alternative vegetable oils.

Statement 2 is incorrect: Indonesia and Malaysia together account for almost 90% of the global palm oil production.

Note: Argentina is a major producer of soy bean oil. Canada is a major producer of canola oil.

Statement 3 is correct: The use of crude palm oil in making biodiesel is being branded as 'green diesel'.

Source: [The Hindu](#)

Q.9) Main Airframe Fatigue Test (MAFT) which is seen in news recently, is related to which of the following?

- a) Testing the performance of Servers
- b) Testing the communication capability of Satellites
- c) Testing the Aircrafts
- d) Testing the frame of high end super cars

Answer: C

The Hindustan Aeronautics Limited (HAL) has commenced the Main Airframe Fatigue Test (MAFT) of the Light Combat Aircraft (LCA) Mk1 airframe.

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These tests will be carried out over a period of eight to nine years. The successful completion of the MAFT will qualify the LCA [Air Force] Mk1 airframe for its full service life.

As per the military airworthiness requirements, the MAFT had to demonstrate the capability of the airframe to withstand four times the service life.

Source: [The Hindu](#)

Q.10) With reference to the Uniform Civil Code, consider the following statements;

1. The implementation of UCC will support the national integration.
2. Uniform Civil Code is so far not implemented in any of the Indian states/UTs.

Which of the statements given above is/are correct?

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

Answer: A

Statement 1 is correct:

India needs a Uniform Civil Code

- To provide equal status to all citizens
- To support the national integration
- To bypass the contentious issue of reform of existing personal laws
- Various Courts judgements that the government should move towards a uniform civil code.

Statement 2 is incorrect: Goa has implemented the Uniform Civil Code. The Uniform Civil code(UCC) was introduced in Goa by the erstwhile Portuguese rulers. It was retained even after the territory was merged with India in the year 1961.

It is the only state in the country where uniform civil code is applicable to all regardless of religion except while protecting certain limited rights.

Source: [Times Now](#)