

10 PM Current Affairs Quiz Compilation

27th June to 2nd July, 2022

PRELIMS

Q.1) Which of the Element is not counted as a Rare Earth Mineral?

- a) scandium
- b) europium
- c) lanthanum
- d) tellurium

Ans) d

Together, the group of following 17 elements is known as Rare Earth Element scandium, yttrium, lanthanum, cerium, praseodymium, neodymium, promethium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, ytterbium and lutetium.

[Source](#)

Q.2) Consider the following statements regarding Global Liveability Index 2022

1. Denmark is the most liveable city in the world as per the index.
2. India has none of its cities in the top 100 of the index.

Which of the statements are correct?

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

Ans) b

Statement 1 is incorrect. The Austrian capital, Vienna has bagged the top spot on the 2022 index. The European city had slipped to the 12th spot on the index in 2021.

Statement 2 is correct. The cities in India have fared poorly in the list of the world's most liveable cities. India's national capital New Delhi has been ranked 112th in the list of most liveable cities. While India's financial capital Mumbai is ranked at 117th position.

[Source-](#)

Q.3) Which of the following are associated with the development of MSMEs in India

1. United Nations Industrial Development Organization (UNIDO)
2. zero effect zero defect (ZED) certification
3. e-Shram

Select the correct answer using the codes given below

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

Ans) d

Option 1 is correct. together with the Bureau of Energy Efficiency (BEE), UNIDO provided energy efficiency advisory services to 695 MSMEs in 23 clusters covering brass, ceramic, dairy, foundry and hand tool sectors.

Option 2 is correct. India's ambitious "Make in India" campaign aims to catapult the country up the manufacturing value chain to position itself as a global manufacturing hub. Initiatives

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such as the production linked incentives (PLI) schemes and the recently launched zero effect zero defect (ZED) certification are helping to promote and boost MSMEs.

Option 3 is correct. Government initiatives such as the Digital Saksham and the interlinking of the Udyam, e-Shram, National Career Service (NCS), and Atmanirbhar Skilled Employee-Employer Mapping (ASEEM) portals show the promise of targeted digitalisation schemes or MSMEs.

[Source](#)

Q.4) Which of the following statements clearly explains the term ‘carbon bombs’?

- These are coal present beneath the Earth’s surface yet to be discovered.
- These are oil or gas projects that will result in at least a billion tonnes of CO₂ emissions over its lifetime.
- These are oil resources present beneath the permafrost that will be exposed due to melting of ice.
- These are vehicular emissions that receive less attention from the international community.

Answer: B

Carbon Bombs are “an oil or gas project that will result in at least a billion tonnes of CO₂ emissions over its lifetime.”

In total, around 195 such projects have been identified the world over, including in the US, Russia, West Asia, Australia and India.

They will collectively overshoot the limit of emissions that had been agreed to in the Paris Agreement of 2015.

Source: [Indian Express](#)

Q.5) With reference to Utricularia Furcellata, consider the following statements;

- It is a fruit bearing plant species found in marsh conditions.
- Recently, the plant was sighted in the Western Himalayas for the first time.

Which of the statements given above is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

Answer: B

Statement 1 is incorrect: It is a rare carnivorous plant species found in Uttarakhand's Mandal valley, Chamoli district. This plant was last seen in the country in Meghalaya state in 1986. These plants are mostly found in freshwater and wet soil.

Statement 2 is correct: Recently, the plant was first sighted in Uttarakhand and also in the entire western Himalayan region for the first time.

Source: [Indian Express](#)

Q.6) Consider the following statements

1. Under his leadership, Sirhind was conquered by the Sikhs from mughals and established the Khalsa rule in Punjab.
2. He abolished the Zamindari system and granted property rights to the tillers of the land.
3. He introduced the Nanak Shahi coins.

Which of the following personality is described in the lines above?

- a) Maharaja Ranjit Singh
- b) Guru Ram Das
- c) Baba Banda Singh Bahadur
- d) Guru Hargobind

Answer: C

Recently, The National Monuments Authority has observed the Martyrdom Day of the great warrior Baba Banda Singh Bahadur at Red Fort in New Delhi.

Source: [PIB](#)

Q.7) With reference to Virtual Servers, consider the following statements;

1. A virtual server is a simulated server environment built on an actual physical server.
2. Virtual servers are not as efficient as the physical servers.

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: A virtual server is a simulated server environment built on an actual physical server. It basically recreates the functionality of a dedicated physical server.

Statement 2 is incorrect: Converting one physical server into multiple virtual servers allows organizations to use processing power and resources more efficiently by running multiple operating systems and applications on one partitioned server.

Source: [The Hindu](#)

Q.8) Which of the following application is/are associated with the usage of drones in Agriculture sector?

1. Distinguish between healthy and diseased or pest-infested plants
2. Digitising land records
3. Transportation of farm produce

Select the correct answer using the code given below:

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

Answer: D

Firstly, Drones are employed in agriculture for a variety of purposes such as estimating the planted area and likely production, assessing crop damage by pests and diseases, and

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digitising land records, apart from their most common use for spraying pesticides and plant nutrients.

Secondly, The use of drones in the farm sector is unlikely to remain confined to a few broad areas, such as spraying, surveying, mapping, and surveillance.

Thirdly, Specially designed sensors equipped with artificial intelligence tools can enable drones to distinguish between healthy and diseased or pest-infested plants for better targeting of pesticides and other plant-protection chemicals.

Fourthly, large drones can be used to transport farm produce, especially perishable items like vegetables, fruit, meat, and fish, to markets directly from farms in the least possible time and with minimum damage to the stuff.

Source: [Business Standard](#)

Q.9) With reference to the Medical Termination of Pregnancy (MTP) Act, consider the following statements;

1. This law is an exception to certain Indian Penal Code (IPC) provisions.
2. The 2021 amendment increased the gestation period from 20 weeks to 28 weeks without any conditions.

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: This law is an exception to the Indian Penal Code (IPC) provisions of 312 and 313 and sets out the rules of how and when a medical abortion can be carried out.

Statement 2 is incorrect: Under the Medical Termination of Pregnancy (Amendment) Act, 2021, abortion is permitted after medical opinion under stipulated circumstances. The 2021 Act increased the upper limit of the gestation period to which a woman can seek a medical abortion to 24 weeks from 20 weeks permitted in the 1971 Act. But this renewed upper limit can only be exercised in specific cases.

Source: [The Hindu](#)

Q.10) Shantilal Shah Committee is related to which of the following?

- a) To draft the India's crude oil diplomacy
- b) To enumerate challenges related to children education
- c) Regarding the legalisation of abortion in India
- d) To draft India's new cyber security policy

Answer: C

In the 1960s, in the wake of a high number of induced abortions taking place, the Union government ordered the constitution of the Shantilal Shah Committee to deliberate on the legalisation of abortion in the country. In order to reduce maternal mortality owing to unsafe abortions, the Medical Termination of Pregnancy (MTP) Act was brought into force in 1971. This law is an exception to the Indian Penal Code (IPC) provisions of 312 and 313 and sets out the rules of how and when a medical abortion can be carried out.

Source: [The Hindu](#)

PRELIMS

Q.1) Which of the following features are associated with the recently signed India-UAE Comprehensive Economic Partnership Agreement (CEPA)?

1. Zero Customs Duty
2. Preferential Market Access
3. Sensitive list cannot be applied in this agreement

Select the correct answer using the codes given below

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

Ans) a

Option 1 is correct. The zero duty access for Indian products to the UAE is set to expand over 5-10 years to 97 per cent of UAE tariff lines corresponding to 99 per cent of India's exports by value.

Option 2 is correct. India will benefit from preferential market access provided by the UAE on over 97 % of its tariff lines which account for 99% of Indian exports to the UAE.

Option 3 is incorrect. India has excluded certain goods from the agreement through a "sensitive list" of products amounting to 10 per cent of tariff lines that are excluded completely from the agreement.

[Source](#)

Q.2) Which of the following impacts of predatory pricing are not correct?

1. Low prices for the product in the long run
2. Creation of monopoly
3. Increase in choice for customers

Select the correct answer using the codes given below

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

Ans) c

In a predatory pricing scheme, prices are set low to attempt to drive out competitors and create a monopoly.

Consumers may benefit from lower prices in the short term, but they suffer if the scheme succeeds in eliminating competition, as this would trigger a rise in prices and a decline in choice.

[Source](#)

Q.3) Which of the following statements correct defines the term 'Off-Budget Debt'?

- a) These are borrowings taken by the Centre to pay off the liabilities or NPAs of Important financial institutions or banks.
- b) These are borrowings taken not by the Centre directly, but by another public institution on the direction of government.
- c) These are borrowings taken by the government, to spend on the activities of central intelligence to maintain secrecy.
- d) These are the borrowings taken by the center, for payment of salaries of constitutional bodies.

Ans) b

Explanations

Off-budget borrowings are loans that are taken not by the Centre directly, but by another public institution which borrows on the directions of the central government. Such borrowings are used to fulfil the government's expenditure needs.

[Source](#)

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

- 1. BRICS countries together launched Remote Sensing constellation of satellites.
- 2. During the Third BRICS Summit, the BRICS leaders set up Asian Infrastructure Investment Bank.

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: A Remote Sensing constellation of satellites has been launched by BRICS Nations with 6 satellites including 2 from India, 2 from China, 1 from Russia, and 1 Brazil-China.

Statement 2 is incorrect: During the Sixth BRICS Summit in Fortaleza (Brazil) in 2014, the leaders signed the Agreement establishing the New Development Bank (NDB - Shanghai, China). It has so far approved 70 infrastructure and sustainable development projects worth.

Source: [The Hindu](#)

Q.7) Which of the following Eras in the Geologic Time Scale, is often referred as the 'Great Dying'?

- a) Mesozoic Era
- b) Jurassic period
- c) Permian Era
- d) Cenozoic Era

Answer: C

The Permian era is a period spanning 298.9 million-252.2 million years ago. This was a time before the dinosaurs ruled the planet. Global ocean temperatures were 10 degrees higher than today. Oxygen levels were 80% lower.

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During this period, land masses collided to form the supercontinent Pangaea. The supercontinent was arid; only a few parts received rainfall round the year.

But towards the end of the era, a series of volcanic eruptions occurred in central Siberia, injecting massive amounts of greenhouse gases (GHG) into the atmosphere.

The change in climate after the volcanic eruptions was a death knell for the flourishing and diverse life forms.

Many long-lived lineages vanished. Roughly 96% of marine species and 70% of land species went extinct. Hence, the scientists refer to this period as the 'Great Dying'.

Source: [DTE](#)

Q.8) With reference to Salt sector, consider the following statements;

1. India is the top producer of salt in the world.
2. Gujarat is the top producer of salt in India.
3. Salt is a central subject and listed as mining industry.

Which of the statements given above is/are correct?

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

Answer: B

Statement 1 is incorrect: India ranks third in the production of salt in the world next to the USA and China.

Statement 2 is correct: Gujarat produces about 28.5 million tonnes of salt per year which is more than 80% of the country's total production.

Statement 3 is correct: Salt is a central subject listed as item number 58 of the Union List of the 7th Schedule of the Constitution. It is listed as a mining industry.

Source: [The Hindu](#)

Q.9) With reference to India State Support Program for Road Safety, consider the following statements;

1. It is a pan India Program that aims to make India Roads accidents free by 2025.
2. The program is funded by World Bank.

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: The programme will be implemented in seven states namely: Andhra Pradesh, Gujarat, Odisha, Tamil Nadu, Telangana, Uttar Pradesh and West Bengal.

Statement 2 is correct: Recently, the World Bank has approved a \$250 million loan to support the "India State Support Program for Road Safety".

Source: [The Hindu](#)

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Q.10) With reference to India, the terms Gadisar, Brahma and Dhandh pertain to,

- a) Tribal languages
- b) Pre-historic cave paintings
- c) Lakes in North India
- d) Dance forms of Northwest Indi

Answer: C

Menar Village in the Udaipur district is set to be notified as Rajasthan's new wetland. This will pave the way for getting the Ramsar site status for this village. The village has two lakes – the Brahma and Dhandh. These lakes play host to more than 150 species of local and migratory birds in the winter season.

Gadisar Lake also called Gadaria Lake is located in the Jaisalmer district of the Indian state of Rajasthan. It was built by the founder of Jaisalmer, King Rawal Jaisal in 1156 AD and later rebuilt by Gadsis Singh in the year around 1367 AD. This lake is an artificial lake.

Source: [The Hindu](#)

International Relations

Q.1) Which of the following is/are the focus of Partnership for Global Infrastructure and Investment(PGII) Initiative?

1. Revive connectivity, trade and infrastructure used in ancient times.
2. Focus on climate action and clean energy.
3. Focus on bolstering digital information and communications technology (ICT) networks

Select the correct answer using the codes given below;

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

Answer: B

Statement 1 is incorrect: China's Belt and Road project was started to revive connectivity, trade and infrastructure along what was China's ancient Silk Road. On the other hand, PGII has been set up to help underfunded low and middle-income countries to meet their infrastructure needs.

Statement 2 is correct: PGII has laid focus on climate action and clean energy while China has built large coal-fired plants under BRI along with solar, hydro, and wind energy projects.

Statement 3 is correct: It will focus on bolstering digital information and communications technology (ICT) networks.

Source: [The Hindu](#)

Q.2) Consider the following pairs,

Famous arts/crafts	-	Associated States
1. Gulabi Meenakari	-	Uttar Pradesh
2. Dokra art	-	Bihar
3. Kullu Shawl	-	Arunachal Pradesh
4. Aranmula Kannadi	-	Kerala

How many pairs given above are correctly matched?

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

Answer: B

Famous arts/crafts	-	Associated States
1) Gulabi Meenakari	-	Uttar Pradesh
2) Dokra art	-	Chhattisgarh
3) Kullu Shawl	-	Himachal Pradesh
4) Aranmula Kannadi	-	Kerala

Source: [Indian Express](#)

Q.3) With reference to Partners in the Blue Pacific(PBP) initiative, consider the following statements;

1. It is an “informal mechanism” to support Pacific islands and to boost diplomatic, and economic ties in the pacific region..
2. It is launched by Russia 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: It is an “informal mechanism” to support Pacific islands and to boost diplomatic, and economic ties in the pacific region.

Statement 2 is incorrect: It is launched by US, Australia, New Zealand, Japan and the United Kingdom

Source: [Indian Express](#)

Q.4) With reference to Hermit, consider the following statements;

1. It is a newly developed chatbot for aiding elderly.
2. Once installed on a device, Hermit can record audio on the device, carry out many unauthorized activities.

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: Hermit is a spyware developed by the Italian commercial spyware vendor RCS Lab.

Statement 2 is correct: Once installed on a device, it can record audio on the device, carry out unauthorized calls and many unauthorized activities.

Source: [The Hindu](#)

Q.5) India’s Booming Gig and Platform Economy Report is released by which of the following organisation?

- a) Reserve Bank of India
- b) Central Statistics Office
- c) Niti Aayog
- d) Small Industries Development Bank of India

Answer: C

NITI Aayog has released a report titled ‘India’s Booming Gig and Platform Economy’. The report is a first-of-its-kind study that presents comprehensive perspectives and recommendations on the gig-platform economy in India.

Source: [ForumIAS Blog](#)

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Q.6) With reference to anti-defection law, consider the following statements;

1. In defection cases, Speaker's decision was subject to judicial review.
2. Presiding Officer can adjudicate defection complaint while a motion for his own removal is pending.

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: In 1992, *Kilhoto Hollohan vs Zachillhu* case, a Constitution Bench, while upholding the validity of the anti-defection law, held that the Speaker's decision was subject to judicial review, albeit on limited grounds.

The court also made it clear that this should take place after a final decision, and there can be no interim order, except if there is an interim disqualification or suspension.

Statement 2 is incorrect: Based on a conclusion in *Nabam Rebia (2016)* that a Presiding Officer should not adjudicate any defection complaint while a motion for his own removal is pending.

Source: [The Hindu](#)

Q.7) *Kaukab-i-Tali*, which was mentioned in news, refers to which of the following?

- a) Biggest and heaviest gold coin ever minted in the world during the reign of Emperor Jahangir.
- b) Emperor Shahjahan's personal collection of books containing various languages.
- c) Shah of Iran's personal gift to Emperor Akbar for his eighth regnal year.
- d) Title given to Nizam-ul-Mulk Asaf Jah for his valiant efforts in war.

Answer: A

Kaukab-i-Tali was 20.3 cm in diameter, weighed 11,935.8 grams, and was minted in Agra. The coin is also inscribed with the Persian script in different calligraphic styles.

It is the biggest and heaviest gold coin ever minted in the world, and it was minted during the reign of Emperor Jahangir.

Source: [TOI](#)

Q.8) Consider the following statements;

1. He is the founder of *Sankhyā*, the Indian Journal of Statistics.
2. He wrote a series of essays titled 'Rabindra Parichay' ('Introduction to Rabindra').
3. He devised a statistical method called 'Fractile Graphical Analysis'. This method is used to compare the socio-economic conditions of varied groups.

Which of the following personalities is referred in the lines above?

- a) Srinivasa Ramanujan
- b) Calyampudi Radhakrishna Rao
- c) Prasanta Chandra Mahalanobis
- d) Satyendra Nath Bose

Answer: C

Source: [The Hindu](#)

Q.9) Which of the following factor/s is/are responsible for increased rain in Northeastern India?

1. La Nina conditions in the Pacific
2. Positive Indian Ocean Dipole (IOD) in the Indian Ocean
3. Strong winds over Bay of Bengal

Select the correct answer using the code given below:

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

Answer: C

Statement 1 is correct and 2 is incorrect: The ongoing La Nina conditions in the Pacific, in combination with a negative Indian Ocean Dipole (IOD) in the Indian Ocean, has increased the intensity of the floods. This is because this condition strengthens the winds that blow from the southwest to the northeast (Southwesterlies) in the Bay of Bengal.

Statement 3 is correct: The winds over the Bay of Bengal have been exceptionally strong for a week. These strong winds carry a lot of moisture, dumping them as rains over Bangladesh and Northeast India.

Source: [Times of India](#)

Q.10) With reference to the 'Use and File' system, consider the following statements;

1. Under this system, Companies are permitted to market products without the regulator's prior approval, thus avoiding a long wait.
2. The system is mostly used in Fast-moving consumer goods (FMCG) sector.

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: Under 'Use and File', insurance firms are permitted to market products without the regulator's prior approval, thus avoiding a long wait.

Statement 2 is incorrect: The system is mostly used in Insurance sector. The system will facilitate insurance firms to quickly introduce new schemes with innovative features, enabling people to participate and cover their health expenses.

Source: [Indian Express](#)

PRELIMS

Q.1) Which of the following countries/place does not share border with UAE?

- a) Oman
- b) Saudi Arabia
- c) Qatar
- d) Persian Gulf

Ans) c



Q.3) Consider the following statements

- 1) UN Sustainable Development Goal (SDGs) targets to halve road traffic crash fatalities and injuries by 2030.
- 2) As per World Bank, India accounts for only 1 per cent of the world’s vehicles.

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

Ans) c

Statement 1 is correct. 2030 Agenda for UN Sustainable Development, in targets 3.6 - aiming for the reduction of global road traffic deaths and injuries by 50 per cent by 2020. Statement 2 is correct. The World Bank noted in a report this month that with only 1 per cent of the world’s vehicles, India accounts for almost 10 per cent of all crash related deaths.

[Source](#)

Q.4) Which of the following can be classified as ecosystem services (PES)

1. photosynthesis or soil formation
2. aesthetic and recreational value added by landscape
3. medicinal 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) All of the above

Ans) d

Ecosystem services can be roughly divided into:

Supporting services – those services creating conditions necessary for the provision of all other ecosystem services, for example photosynthesis or soil formation

Provisioning services – all products coming from ecosystems, for example food, fiber, fuel, herbs and medicinal plants, genetic resources, drinking water

Regulating services – the capacity of ecosystems to regulate important natural processes, for example regulation of climate, quality and quantity of water, etc.

Cultural services – non-material benefits from ecosystems, for example the aesthetic and recreational value of landscapes

[Source](#)

Q.5) Consider the following statements regarding Primary Agriculture Cooperative Societies (PACS).

1. PACS aids in financial inclusion of the rural areas.
2. PACS can offer any economic activities other than credit to become economically viable.

Select the correct answer using the codes given below

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

Ans) a

Statement 1 is correct.

Statement 2 is incorrect. The model bylaws will enable PACS to offer a host of economic activities other than credit. This includes developing cold-storage facilities in villages, running PDS shops and providing locker facilities for rural depositors. However, at present PACS cannot deviate from their core economic activities.

[Source](#)

Q.6) With reference to India Forum for Nature-Based Solutions(NbS), consider the following statements;

1. The forum aims to create a collective of NbS entrepreneurs, government entities to help scale urban nature-based solutions.
2. It is a global forum created by Cities4Forests Initiative.

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 forum aims to create a collective of NbS entrepreneurs, and government entities to help scale urban nature-based solutions.

Statement 2 is incorrect: It is India's first national coalition platform for urban nature-based solutions(NbS).

Source: [PIB](#)

Q.7) With reference to Living Lands Charter, consider the following statements;

1. The charter mandates member countries to safeguard global land resources and arrest land degradation.
2. It is a binding agreement adopted by the G7 member countries.

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 charter mandates member countries to safeguard global land resources and arrest land degradation while acting against climate change, biodiversity loss and towards sustainable management.

Statement 2 is incorrect: It is a non-binding agreement adopted by the Commonwealth member countries.

Source: [DTE](#)

Q.8) The term CAPSTONE, which was seen in news recently, is related to which of the following?

- a) A new gem stone found close to Earth's mantle.
- b) A new moss species that has been identified with true roots for the first time.
- c) A new CubeSat launched by NASA to Near-Rectilinear Halo Orbit(NRHO).
- d) A stone excavated in Dholavira showing the evidence of Horse riding.

Answer: C

NASA has launched CAPSTONE, a microwave oven-sized CubeSat weighing just 55 pounds (25 kg).

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For the Artemis Mission, NASA has decided to include Gateway, a small space station around the moon. That would make it easier for astronauts to reach more parts of the moon. This outpost is to be placed in what is known as a Near-Rectilinear Halo Orbit(NRHO).

At the Moon, CAPSTONE will enter NRHO, where it will fly within 1,600 km of the Moon's the North Pole on its near pass and 70,000 km from the South Pole at its farthest.

Source: [Indian Express](#)

Q.9) With reference to Primary Agriculture Credit Societies (PACS), consider the following statements;

1. These constitute the top tier of the four tiers of Long-term cooperative credit (LTCC).
2. PACS fall within the jurisdiction of state governments.
3. There is no uniformity in the software being used by them and they are not interconnected.

Select the correct answer using the codes given below;

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

Answer: B

Statement 1 is incorrect: Primary Agricultural Cooperative credit societies (PACS) constitute the lowest tier of the three-tier Short-term cooperative credit(STCC) in the country. The other two tiers are: State Cooperative Banks(StCBs) and District Central Cooperative Banks (DCCBs).

Statement 2 is correct: PACS fall within the jurisdiction of state governments.

Statement 3 is correct: There is also no uniformity in the software being used by them and they are not interconnected with the DCCBs and StCBs. So, recently the Cabinet Committee on Economic Affairs has approved the Computerization of Primary Agricultural Credit Societies (PACS).

Source: [PIB](#)

Q.10) Which of the following is/are the application/s of Lithium?

1. Rechargeable batteries for mobile phones
2. Used in air conditioning and industrial drying systems
3. Used in special glasses and glass ceramics

Select the correct answer using the codes given below;

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

Answer: D

Rechargeable Batteries: Lithium is used in rechargeable batteries for mobile phones, laptops, digital cameras and electric vehicles.

Alloy making: Lithium metal is made into alloys with aluminium and magnesium, improving their strength and making them lighter. A magnesium-lithium alloy is used for armour plating. Aluminium-lithium alloys are used in aircraft, bicycle frames and high-speed trains.

Other uses: Lithium oxide is used in special glasses and glass ceramics. Lithium chloride is also one of the most hygroscopic materials known, and is used in air conditioning and industrial drying systems (as is lithium bromide).

Source: [DTE](#)

PRELIMS

Q.1) With reference to Living Lands Charter of Commonwealth Heads of Government Meeting (CHOGM), consider the following statements:

1. Under the agreement, all Commonwealth members will be dedicating a living land in their respective countries to future generations.
2. The charter is binding in nature.

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:** All 54 Commonwealth members have agreed to voluntarily dedicate a 'living land' in their respective countries to future generations, in line with the strategy set for the United Nations Decade on Ecosystem Restoration.
- **Statement 2 is incorrect:** The Living Lands Charter is non-binding in nature.

Source: [Article](#)

Q.2) With reference to the Raising and Accelerating MSME Performance (RAMP) scheme, consider the following statements:

1. It is a World Bank assisted Central Sector Scheme, supporting various Covid Resilience and Recovery Interventions.
2. The overall monitoring and policy overview of the scheme would be done by NITI Aayog.

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 World Bank assisted Central Sector Scheme, supporting various COVID Resilience and Recovery Interventions of the Ministry of Micro, Small and Medium Enterprises (MoMSME).
- **Statement 2 is incorrect:** The overall monitoring and policy overview of RAMP would be done by an apex National MSME Council.

Source: [Article](#)

Q.3) Which of the following countries are members of both G7 and G20?

1. Canada
2. Australia
3. France

Select the correct answer from the codes given below:

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

Answer: d

- **G7 members:** Canada, France, Germany, Italy, Japan, the United Kingdom and the United States.
- **G20 members:** Argentina, Australia, Brazil, Canada, China, Germany, France, India, Indonesia, Italy, Japan, Mexico, Russia, Saudi Arabia, South Africa, South Korea, Turkey, the United Kingdom, the United States and the European Union.

Source: [Article](#)

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

1. Biofuels can be solid, liquid or gaseous in nature.
2. The first-generation biofuels are made from non-food crops or portions of food crops that are not edible and considered as wastes.

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: Biofuels may be solid, liquid or gaseous in nature.

- **Solid:** Wood, dried plant material, and manure
- **Liquid:** Bioethanol and Biodiesel
- **Gaseous:** Biogas

Statement 2 is incorrect: First-generation Biofuels are made from food sources such as sugar, starch, vegetable oil, or animal fats using conventional technology.

- Second-generation Biofuels are produced from non-food crops or portions of food crops that are not edible and considered as wastes. For example: stems, husks, wood chips, and fruit skins and peeling.

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Q.5) 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.

Q.6) With reference to Business Reforms Action Plan(BRAP), consider the following statements;

1. It aims to boost investor confidence, foster a business-friendly climate and augment the Ease of Doing Business.
2. It was released by the Department for Promotion of Industry and Internal Trade(DPIIT).

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: D

Statement 1 is correct: The plan aims to boost investor confidence, foster a business-friendly climate and augment the Ease of Doing Business by introducing an element of healthy competition through a system of assessing states based on their performance in the implementation of the Business Reforms Action Plan.

Statement 2 is correct: It is released by Department for Promotion of Industry and Internal Trade(DPIIT).

Source: [PIB](#)

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Q.7) With reference to Nadaprabhu Kempegowda, consider the following statements;

1. He is a 17th-century architect of the Bijapur Sultanate.
2. He is credited as the founder of Bengaluru City.

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: He is a 16th-century chieftain of the Vijayanagara empire.

Statement 2 is correct: He is credited as the founder of Bengaluru City. He also prohibited the custom of amputating the last two fingers of the left hand of unmarried women during "Bandi Devaru".

Source: [Indian Express](#)

Q.8) With reference to Exercise RIMPAC (Rim of the Pacific), consider the following statements;

1. It is an annual multilateral Naval Exercises led by China.
2. India is one of the participator in RIMPAC.

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 one of the largest biennial multilateral Naval Exercises led by the United States(US). It was first conducted in 1971.

Statement 2 is correct: 26 countries are participating in the exercise. India is one among these countries.

India for the first time participated in the Exercise RIMPAC in 2014.

Source: [PIB](#)

Q.9) With reference to Vritika Research Internship, consider the following statements;

1. It aims to provide necessary knowledge on converting research data into an indexed publication and exposure to processing of research manuscripts for publication.
2. Only Masters and PhD (Science Stream) students enrolled in any Indian University or Institution can apply.

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: It aims to provide necessary knowledge on converting research data

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into an indexed publication and exposure to processing of research manuscripts from preparation to publication..

Statement 2 is correct: Only Masters and PhD (Science Stream) students enrolled in any Indian University or Institution can apply.

Source: [PIB](#)

Q.10) With reference to Abhyas, consider the following statements;

1. It is a High-speed Expendable Aerial Target (HEAT) that offers a realistic threat scenario for the practice of weapon systems.
2. It is powered by a solid fuel having low endurance flight at hypersonic speed.

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 High-speed Expendable Aerial Target (HEAT) that offers a realistic threat scenario for the practice of weapon systems.

Statement 2 is incorrect: It is powered by a gas turbine engine to sustain a long endurance flight at subsonic speed.

Source: [Indian Express](#)

PRELIMS

Q.1) Consider the following statements regarding Single-Use Plastic (SUP) Products:

1. Replacing SUPs with biodegradable SUPs will eliminate the possibility of environmental harm.
2. SUPs of every thickness have been banned.

Select the correct answer using the codes given below

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

Ans) d

Statement 1 is incorrect. Replacing SUPs with biodegradable SUPs will not eliminate the problem of microplastics that are now poisoning our food chain and are even being found in our bloodstream.

Statement 2 is incorrect. Plastic carry bags, for instance, will not be banned, they will still be available but the thickness has been regulated to be more than 75 microns till December 31, 2022, and more than 120 microns from December 31, 2022 onward

Q.2) Consider the following statements regarding Anti-defection law

- 1) An MLA can be disqualified if in any situation he/she gives up the membership of the party on whose symbol he got elected.
- 2) Any nominated member joins any political party before the end of 6 months can be disqualified.

Select the correct answer using the codes given below

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

Ans) d

Statements 1 and 2 are incorrect.

Grounds for Disqualification:

- a member **voluntarily** giving up membership of the party on whose symbol he got elected (The word voluntary is the key here)
- a member violating a direction (whip) issued by his party to vote in a particular way or to abstain from voting.
- a member who is independently elected joins any party.
- any nominated member joins any political party after the end of 6 months.

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Q.3) Which of the following phenomenons may occur due to loss of sea ice in the Arctic?

1. Entry of Large Whales from Southern areas
2. Extinction of Polar bears
3. Changes in the food chain

Answer using the codes given below

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

Ans) c

Options 1 is correct. Melting ice will lead to the entry of the sea animals into the generally inaccessible Arctic region.

Option 2 is incorrect. It won't lead to the extinction of Polar bears, as small numbers will be able to survive due to glacier ice.

Option 3 is correct. Due to the entry of animals from the south, changes in the food chain will occur.

Q.4) Consider the following statements regarding the Environment Protection Act (EPA), 1986

- 1) EPA only imposes monetary penalties for the violation of its provisions
- 2) EPA superseded the Water and Air Act.

Select the correct answer using the codes given below

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

Ans) b

Statement 1 is incorrect. In case of any non-compliance or contravention of the current provisions of the EPA, or of the rules under this Act, the violator can be punished with imprisonment for up to five years or with a fine up to Rs 1,00,000, or both. If the violation continues beyond a period of one year after the date of conviction, the offender can be punished with imprisonment for a term which may extend to seven years.

Statement 2 is correct. The EPA, an overarching law that supersedes other environment laws such as the Water and Air Act, which will also be decriminalised.

[Source](#)

Q.5) India's largest floating Solar Power Project is located in which of the following state?

- a) Gujarat
- b) Karnataka
- c) Telangana
- d) Tamil Nadu

Answer: C

India's largest floating Solar Power Project is now fully operational. NTPC declared Commercial

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Operation of the final part capacity of 20 MW out of 100 MW Ramagundam Floating Solar PV Project at Ramagundam, Telangana with effect from July 01, 2022.

Source : [PIB](#)

Q.6) Which of the following is/are considered as small savings instruments?

1. Postal Deposits
2. Social Security Schemes
3. Investment in government bonds

Select the correct answer using the codes given below;

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

Answer: C

Small savings instruments can be classified under three heads:

Postal Deposits (comprising savings account, recurring deposits, time deposits of varying maturities and monthly income scheme).

Savings Certificates: National Small Savings Certificate (NSC) and Kisan Vikas Patra (KVP).

Social Security Schemes: Sukanya Samridhi Scheme, Public Provident Fund (PPF) and Senior Citizens' Savings Scheme (SCSS).

Source: [The Hindu](#)

Q.7) With reference to Protected Forests, consider the following statements;

1. These are the most restricted forests and are constituted by the State Government on any forest land or wasteland.
2. Local people are prohibited in protected forests, unless specifically allowed by a Forest Officer in the course of the settlement.

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: D

Both the statements are incorrect.

Both the statements explain reserved forest not protected forests.

The State Government is empowered to constitute any land other than reserved forests as protected forests over which the Government has proprietary rights and the power to issue rules regarding the use of such forests.

This power has been used to establish State control over trees, whose timber, fruit or other non-wood products have revenue-raising potential.

Source: [Hindustan Times](#)

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Q.8) With reference to Bartholomaeus Ziegenbalg, consider the following statements;

1. He was a Danish missionary and he arrived in Tranquebar (Tharangambadi), a tiny Danish colony on the east coast.
2. He soon set up a printing press and published studies of the Tamil language and Indian religion and culture.

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

Bartholomaeus Ziegenbalg was born in Saxony in 1682. He was a Danish missionary. In 1706, he arrived in Tranquebar (Tharangambadi), a tiny Danish colony on the east coast, close to Nagapattinam in Tamil Nadu, on the southeast coast of India, as the first Protestant missionaries in that country.

He soon set up a printing press and published studies of the Tamil language and Indian religion and culture. He died in 1719, at age 37.

He left behind a Tamil translation of the Bible, many brief writings in Tamil, two church buildings, the seminary and baptized Christians.

Source: [The Hindu](#)

Q.9) With reference to Partners in Indian Pharmacopoeia, consider the following statements;

1. It prescribes the official standards for drugs produced and/or marketed in India.
2. The standards of the IP are authoritative and legally enforceable.
3. At present, the standards are applicable only within India.

Which of the statements given above is/are correct?

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

Answer: C

Statement 1 and 2 is correct: Indian Pharmacopoeia(IP) is published by the Indian Pharmacopoeia Commission(IPC) on behalf of the Ministry of Health & Family Welfare to fulfill the requirements of the Drugs and Cosmetics Act 1940.

IP prescribes the official standards for drugs produced and/or marketed in India and thus contributes to the control and assurance of the quality of the medicines.

The standards of the IP are authoritative and legally enforceable. It intends to help in the licensing of manufacturing, inspection and distribution of medicines in our country.

Statement 3 is incorrect: Currently, four countries – Afghanistan, Ghana, Nepal and Mauritius-have accepted IP as a book of standards in their country.

Source: [PIB](#)