ENGLISH MEDIUM UPSC AS PRELIMS General Studies & CSAT SOLVED PAPERS

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Answers with Detail Analytical Explanation based on NCERT & REVISED ANSWER-KEY

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Union Public Service Commission Civil Services Preliminary Examination

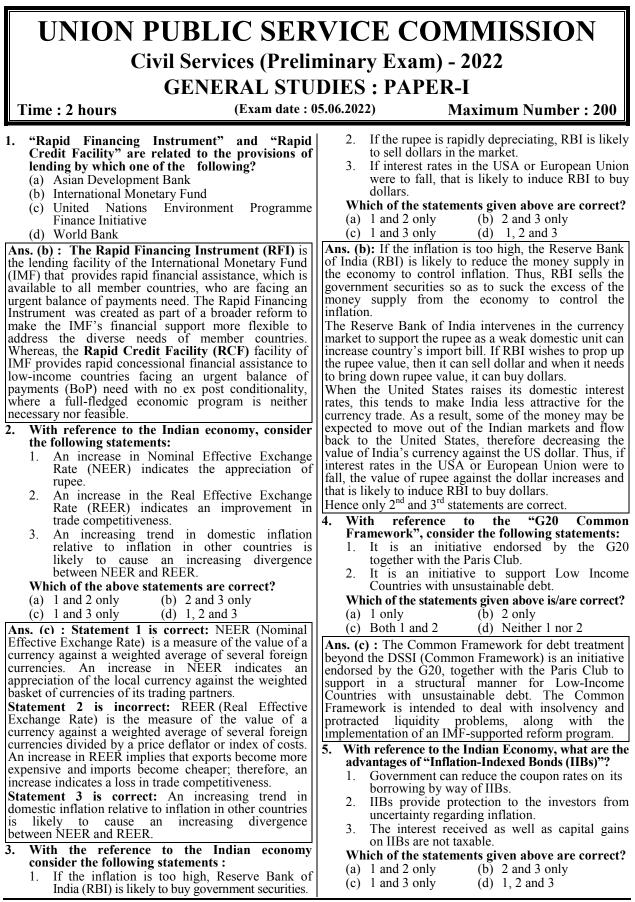
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Ans. (a) : Inflation-indexed bonds (IIBs) provide	Ans. (d) : Indirect transfers refer to situations when
insurance to investors from inflation and cost savings	foreign entities own shares or assets in India. The
for the Government on account of reduction in coupon payments with lowering inflation rate, elimination of	shares of such foreign entities are transferred instead of a direct transfer of the underlying assets in India.
uncertainty risk premium and containing inflationary	9. With reference to the expenditure made by an
expectations. Hence statements 1 and 2 are correct.	organization or a company, which of the
However, extant tax provisions will be applicable on	following statements is /are correct?
interest payment and capital gains on IIBs. There will	1. Acquiring new technology is capital expenditure.
be no special tax treatment for these bonds. Therefore	2. Debt financing is considered capital expenditure
3 rd statement is incorrect.	while equity financing is considered revenue
6. With reference to foreign-owned e- commerce	expenditure.
firms operating in India, which of the following statements is/are correct?	Select the correct answer using the code given
1. They can sell their own goods in addition to	below: (a) 1 only (b) 2 only
offering their platforms as market-place.	(a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2
2. The degree to which they can own big	Ans. (a) : Capital expenditures are funds used by a
sellers on their platforms is limited.	company to acquire, upgrade, and maintain physical
Which of the statement given above are correct?	assets such as property, plants, buildings, technology,
(a) 1 only (b) 2 only	or equipment.
(c) Both 1 and 2 (d) Neither 1 nor 2	When a company borrows money to be paid back at a
Ans. (d) : Statement 1 is incorrect: Foreign firms are	future date with interest it is known as debt financing.
prevented from holding inventory or selling their own	Repayment of loan is an example of capital
goods. They can offer their platforms only as	expenditure. Equity financing is the process of raising capital through the sale of shares. It is an example of
"marketplaces" for other buyers and sellers.	non-debt capital receipts. Capital receipts are receipts
Statement 2 is incorrect: The degree to which they can	that create liabilities or reduce financial assets. They
own all sellers (not big sellers) on their platforms is limited, to prevent those sellers from acting covertly on	also refer to incoming cash flows. Therefore only
their behalf.	statement1 is correct.
7. Which of the following activities constitute real	10. With reference to the Indian economy, conside
sector in the economy?	the following statements:
1. Farmers harvesting their crops	1. A share of the household financial savings goes
2. Textile mills converting raw cotton into fabrics	 towards government borrowings. Dated securities issued at market-related rates in
3. A commercial bank lending money to a trading	2. Dated securities issued at market-related rates in auctions form a large component of interna
company	debt.
4. A corporate body issuing Rupee Denominated	Which of the above statements is/are correct?
Bonds overseas	(a) 1 only (b) 2 only
Select the correct answer using the code given below :	(c) Both 1 and 2 (d) Neither 1 nor 2
(a) 1 and 2 only (b) 2, 3 and 4 only	Ans. (c) : Household Savings is often deposited in
(a) 1 and 2 only (b) 2, 5 and 4 only (c) 1, 3 and 4 only (d) $1, 2, 3$ and 4	financial institutions, which are used by them to buy
Ans. (a) : The real sector of the economy consists of	government securities. Hence, Statement-1 is correct.
enterprises (non-financial corporations), households	Internal debt consists of marketable debt and non-
and non-profit institutions serving households. Non-	marketable debt. Marketable debt comprises of Government dated securities and Treasury Bills. Dated
financial organizations comprise all resident units	Securities form a large component of internal debt.
involved in the production of market goods and non-	11. Consider the following statements:
financial services. For example, farmers harvesting their	1. Pursuant to the report of H.N. Sanyal
crops and Textile mills converting raw cotton into fabrics.	Committee, the Contempt of Courts Act, 197
Corporations principally engaged in financial intermediation or in auxiliary financial activities that	was passed.
contribute to financial intermediation are considered as	2. The Constitution of India empowers th
the financial sector. Hence only options 1 and 2 are correct.	Supreme Court and the High Courts to punish
8. Which one of the following situations best reflects	for contempt of the mselves.
"Indirect Transfers" often talked about in media	3. The Constitution of India defines Civil
recently with reference to India?	Contempt and Criminal Contempt. 4. In India, the Parliament is vested with th
(a) An Indian company investing in a foreign	Powers to make laws on Contempt of Court.
enterprise and paying taxes to the foreign	Which of the statements given above is/are correct?
country on the profits arising out of its investment	(a) 1 and 2 and (b) 1 2 and 4
(b) A foreign company investing in India and paying taxes to the country of its base on the	
profits arising out of its investment	Ans. (b) : The Contempt of Courts Act, 1971 was
(c) An Indian company purchases tangible assets in	passed after the Report of the H. N. Sanyal Committee
a foreign country and sells such assets after their	on Contempt of Courts, 1963. Hence 1st statement is
value increases and transfers the proceeds to	correct.
India	The Supreme Court and the High Courts of India have
(d) A foreign company transfers share and such	been empowered with the power to penalize for
shares derive their substantial value from assets	Contempt of Court under Articles 129 and 215 of the
located in India.	Constitution of India. Hence 2nd statement is correct.

The Constitution of India does not define Civil Contempt and/or Criminal Contempt. Hence Statement 3 is incorrect.

Parliament framed the Contempt of Courts Act, 1971, laying down procedure and punishment for contempt of court. Parliament has power to amend certain clauses of the Contempt of Courts Act, 1971 but according to latest Supreme Court ruling, no law can take away Court's power to punish for contempt. Hence statement 4 is correct.

- 12. With reference to India, consider the following statements:
 - 1. Government law officers and legal firms are recognised as advocates, but corporate lawyers and patent attorneys are excluded from recognition as advocates.
 - 2. Bar Councils have the power to lay down the rules relating to legal education and recognition of law colleges.

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. (b): Corporate Lawyers, as well as patent attorneys, are too recognized as lawyers and there's no prohibition on their recognition as lawyers. Hence 1st statement is incorrect. The Bar Council of India visits and inspects Universities/Law colleges in the country as part of its statutory function of promoting legal education and laying down standards in consultation with the Universities in India and the State Bar Councils. The Bar Council of India is a statutory body established under section 4 of the Advocates Act 1961 that regulates the legal practice and legal education in India. Hence 2nd statement is correct.

13. Consider the following statements:

- 1. A bill amending the Constitution requires a prior recommendation of the President of India.
- 2. When a Constitution Amendment Bill is presented to the President of India, it is obligatory for the President of India to give his/her assent.
- A Constitution Amendment Bill must be passed by both the Lok Sabha and the Rajya Sabha by a special majority and there is no provision for joint sitting.

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

Ans. (b): The Bill amending the constitution does not require a prior recommendation from the President of India. Hence 1st statement is incorrect.

When a Constitution Amendment Bill is presented to the President of India, it is obligatory for the President of India to give his/her assent. The President cannot exercise his veto powers with reference to the Constitution amendment bill. Also according to Article 368, the Constitution can be amended only by a 2/3rd majority in both Houses. There is no provision for a joint sitting in case of a disagreement between both Houses. Hence 2^{nd} and 3^{rd} statements are correct.

14. Consider the following statement:

- 1. The Constitution of India classifies the ministers into four ranks viz. Cabinet Minister, Minister of State with Independent Charge, Minister of State and Deputy Minister.
- 2. The total number of ministers in the Union Government, including the Prime Minister, shall not exceed 15 percent of the total number of members in the Lok Sabha.

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. (b): There is no classification in the Constitution of India for the Council of Ministers. Article 74 provides that there shall be a Council of Ministers with the Prime Minister at the head to aid and advise the President who shall, in the exercise of his functions, act in accordance with such advice. Hence 1st statement is incorrect.

According to the Constitution (91st Amendment) Act, 2003, that amended article 75, the total number of ministers, including the Prime Minister, in the cabinet of ministers shall not exceed 15% of the total strength of the Lok Sabha. Hence 2nd statement is correct.

15. Which of the following is/are the exclusive power(s) of Lok Sabha?

- 1. To ratify the declaration of Emergency
- 2. To pass a motion of no-confidence against the Council of Ministers.
- 3. To impeach the President of India

Select the correct answer using the code given below: (a) 1 and 2 (b) 2 only (c) 1 and 3 (d) 3 only

Ans. (b) : The Proclamation of Emergency must be approved by both the Houses of Parliament within one month from the date of its issue. If approved by both the Houses of Parliament, the emergency continues for six months, and can be extended to an indefinite period with an approval of the Parliament for every six months. As per Article 61, when a President is to be impeached for violation of the Constitution, the charges can be initiated by either House of Parliament. The impeachment resolution needs to be passed by a majority of two-thirds of the total membership in each house. Thus, it is not an exclusive power of the Lok Sabha.

However Article 75 (3) provides that the Council of Ministers shall be collectively responsible to the House of the People. So, only LokSabha can pass a noconfidence motion against the Council of Ministers. Hence it is an exclusive power of the Lok Sabha.

16. With reference to anti-defection law in India, consider the following statements:

- 1. The law specifies that a nominated legislator cannot join any political party within six months of being appointed to the House.
- 2. The law does not provide any time-frame within which the presiding officer has to decide a defection case.

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. (b): A nominated member of a House shall be disqualified for being a member of the House if he joins any political party after the expiry of six months from the date on which he takes his seat after complying with the requirements of article 99 or, as the case may be. Hence 1st statement is incorrect. The law does not specify a time period for the Presiding Officer to decide on a disqualification plea under the Tenth Schedule. Hence 2nd statement is correct.

17. Consider the following statements:

- 1. Attorney General of India and Solicitor General of India are the only officers of the Government who are allowed to participate in the meetings of the Parliament of India.
- 2. According to the Constitution of India, the Attorney General of India submits his resignation when the Government which appointed him resigns.

Which of the statement given above is/are correct? (a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2

Ans. (d): However, the Attorney General of India has the right to audience in all Courts in India as well as the right to take part in the proceedings of Parliament without the right to vote. The Solicitor General of India has no such privilege.

As per Article 76, the Attorney General shall hold office during the pleasure of the President. There is no mention in the Indian Constitution of the need for him to submit his resignation when the Government which appointed him resigns.

Hence both the statements are incorrect.

- **18.** With the reference to the writs issued by the Courts in India, consider the following statements :
 - 1. Mandamus will not lie against a private oragnisation unless it is entrusted with a public duty.
 - 2. Mandamus will not lie against Company even though it may be a Government Company.
 - 3. Any public minded person can be a petitioner to move the Court to obtain the writ of Quo Warranto.

Which of the statements given above are correct?

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

Ans. (c) : Mandamus is a command issued by the court to a public official asking him to perform his official duties that he has failed or refused to perform. It can also be issued against **any public body**, a corporation, an inferior court, a tribunal, or a government for the same purpose. It is usually not usable against a private entity unless it is entrusted with a public duty.

Quo Warranto is issued by the court to enquire into the legality of the claim of a person to a public office. Hence, it prevents illegal usurpation of public office by a person. Unlike the other writs, this can be sought by any interested person and not necessarily by the aggrieved person.

Hence only 1st and 3rd statements are correct. However the commission has considered option (d) is as correct answer.

- 19. With reference to Ayushman Bharat Digital Mission, consider the following statements:
 - 1. Private and public hospitals must adopt it.
 - 2. As it aims to achieve universal health coverage, every citizen of India should be part of it ultimately.
 - 3. It has seamless portability across the country. Which of the statements given above is/are correct? (a) 1 and 2 only (b) 3 only (c) 1 and 3 only (d) 1, 2 and 3

Ans. (b): Only the 3^{rd} statement is correct. Ayushman Bharat Digital Mission will have a national footprint and will enable seamless portability across the country through a Health ID – Personal Health Identifier. The Mission (ABDM) has not made it mandatory for adoption by private and public hospitals. Its adoption so far would be voluntary. The aim of the Ayushman Bharat Digital Mission is to facilitate the ease of access to medical records and it is not been mandated to have every citizen as its part though the facility is available to every citizen on a consent basis.

- 20. With reference to Deputy Speaker of Lok Sabha, consider the following statements:
 - 1. As per the Rules of Procedure and Conduct of Business in Lok Sabha, the election of Deputy Speaker shall be held on such date as the Speaker may fix.

- 2. There is a mandatory provision that election of a candidate as Deputy Speaker of Lok Sabha shall be from either the principal opposition party or the ruling party.
- 3. The Deputy Speaker has the same power as of the Speaker when presiding over the sitting of the House and no appeal lies against his rulings.
- 4. The well established parliamentary practice regarding the appointment of Deputy Speaker is that the motion is moved by the Speaker and duly seconded by the Prime Minister.

Which of the statements given above are correct?

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

Ans. (a): As per Rule 8 of Procedure and Conduct of Business in Lok Sabha, the election of a Deputy Speaker shall be held on such date as the Speaker may fix, and the Secretary-General shall send to every member notice of this date. There is no mandatory provision that the election of a candidate, as Deputy Speaker of Lok Sabha, shall be from either the principal opposition party or the ruling party. It is only by convention that the position of Deputy Speaker is offered to the opposition party in India. In case of the absence of the Speaker, the Deputy Speaker presides over the sessions of the Lok Sabha and conducts the business in the house. The Deputy Speaker is also elected by the Lok Sabha from amongst its members right after the election of the Speaker has taken place. There is no provision and or established practice of moving the motion for his election by the speaker and it is seconded by the prime minister.

21. Among the following crops, which one is the most important anthropogenic source of both methane and nitrous oxide?

(a) Cotton (b) Rice (c) Sugarcane (d) Wheat **Ans. (b):** Rice (Paddy) is considered as one of the most important sources of methane and nitrous oxide emissions, which have attracted considerable attention due to their contribution to global warming.

- 22. "System of Rice Intensification" of cultivation, in which alternate wetting and drying of rice fields is practised, results in:
 - 1. Reduced seed requirement
 - 2. Reduced methane production
 - 3. Reduced electricity consumption

Select the correct answer using the code given below:

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

Ans. (d): The System of Rice Intensification involves cultivating rice with as much organic manure as possible. It includes a method called Alternate Wetting and Drying (AWD) which is a form of controlled or intermittent irrigation of the rice crops. It has the following benefits and impacts, compared to conventional methods of paddy cultivation:

It increases paddy yields usually by 20-50% and sometimes up to 100%,

It reduces required seeds for transplanting by 60-80%,

The electricity consumption will be less as it enables reduce use of chemical fertilizers and agrichemicals and reduced use of irrigation water by 25-50%,

By stopping flooding and relying mostly on organic fertilization, methane emissions are greatly reduced without offsetting increases in nitrous oxide. Hence all the given statements are correct.

23. Which one of the following lakes of West Africa has become dry and turned into a desert?	8
(a) Lake Victoria (b) Lake Faguibine	(a) 1, 2 and 3 only (b) 1, 2 and 4 only (c) 2 and 4 anti- (d) 1, 2 and 4 only
(c) Lake Oguta (d) Lake Volta	(c) 3 and 4 only (d) 1, 2, 3 and 4 $(1, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,$
Ans. (b) : Lake Faguibine in northern Mali started to	Ans. (b): Though monazite is found in most coastal areas of India. It is questionable for monazite to be
disappear after catastrophic droughts in the 1970s. Over	found along entire coast. The main mines are found
several years, droughts in the 1970s dried up the lake.	along the coasts of southern India in Kerala, Tamil
24. Gandikota canyon of South India was created by	Nadu and in Orissa. Rests of the statements are correct.
which one of the following rivers?	29. In the northern hemisphere, the longest day of
(a) Cauvery (b) Manjira	the year normally occurs in the:
(c) Pennar (d) Tungabhadra	(a) First half of the month of June
Ans. (c): Gandikota canyon of South India was created by The river Pennar. The swift-flowing waters of River	(b) Second half of the month of June
Pennar cut through the granite rocks near the village of	(c) First half of the month of July
Gandikota, naturally eroding the rock and forming	(d) Second half of the month of July
Gandikota Canyon.	Ans. (b): The longest day of the year for those living
25. Consider the following pairs:	north of the Equator is June 21. This day is referred to
Peak Mountains	as the summer solstice. It occurs when the sun is directly over the Tropic of Cancer. Hence the correct
 Namcha Barwa - Garhwal Himalaya Nanda Devi - Kumaon Himalaya 	answer to the question would be 2^{nd} half of the month
3. Nokrek - Sikkim Himalaya	of June.
Which of the pairs given above is/are correctly	30. Consider the following pairs:
matched?	Wetland/Lake Locations
(a) 1 and 2 (b) 2 only (c) 1 and 3 (d) 3 only	1. Hokera Wetland - Punjab
Ans. (b): Namcha Barwa is a mountain in Arunachal	2. Renuka Wetland - Himachal Pradesh
Pradesh and not in Garhwal Himalaya. It is considered	3. Rudrasagar Lake - Tripura
as the Eastern point of the Himalayas. Nanda Devi peak is in the state of Uttarakhand. It is a part of the Garhwal	4. Sasthamkotta Lake - Tamil Nadu
Himalayas. The Nokrek is located in the northeast of	How many pairs given above are correctly
India on the Tura Range, which forms part of the	matched?
Meghalaya Plateau. Nokrek is the highest peak of the	(a) Only one pair (b) Only two pairs
Garo hills.	(c) Only three pairs (d) All four pairs
26. The term "Levant" often heard in the news roughly corresponds to which of the following	Ans. (b) : The Hokera wetland is a Ramsar site at Zainakote near Srinagar in Jammu and Kashmir.
regions?	Renuka wetland is in the Sirmaur district of Himachal
(a) Region along the eastern Mediterranean shores	Pradesh. Rudrasagar Lake, also known as Rudijala is a
(b) Region along North African shores stretching	famous lake situated in the Melaghar Block under
from Egypt to Morocco	Sonamura Sub-Division in the West Tripura District in
(c) Region along Persian Gulf and Horn of Africa(d) The entire coastal areas of Mediterranean Sea	Tripura. Sasthamkotta lake also known as the Queen of
	Lakes is the largest freshwater lake in Kerala. Hence only two pairs are correctly matched.
Ans. (a) : The Levant is an approximate historical geographical term referring to a large area in the	31. Consider the following :
Eastern Mediterranean region of Western Asia, roughly	1. Aarogya Setu 2. CoWIN
corresponding to modern-day Israel, Jordan, Lebanon,	3. DigiLocker 4. DIKSHA
Syria, and certain adjacent areas.	Which of the above are built on top of open-
27. Consider the following countries:	source digital platforms?
1. Azerbaijan 2. Kyrgyzstan	(a) 1 and 2 only (b) 2, 3 and 4 only
 Tajikistan Turkmenistan Uzbekistan 	(c) 1, 3 and 4 only (d) 1, 2, 3 and 4
Which of the above have borders with Afghanistan?	Ans. (d): Open source software is software with source
(a) 1, 2 and 5 only (b) 1, 2, 3 and 4 only	code that anyone can inspect, modify, and enhance.
(a) 1, 2 and 5 only (b) 1, 2, 5 and 4 only (c) 3, 4 and 5 only (d) 1, 2, 3, 4 and 5	Digilocker, Diksha, Aarogya Setu, the Covid-19
Ans. (c): Afghanistan is bounded to the east and south	vaccination platform CoWIN have been built on top of open-source digital platforms.
by Pakistan (including those areas of Pak occupied	32. With reference to Web 3.0, consider the following
Kashmir), to the west by Iran, and to the north by the	statements:
Central Asian states of Turkmenistan, Uzbekistan, and	1. Web 3.0 technology enables people to control
Tajikistan.	their own data.
28. With reference to India, consider the following statements:	2. In Web 3.0 world, there can be blockchain
1. Monazite is a source of rare earths.	based social networks.
 Monazite contains thorium. 	3. Web 3.0 is operated by users collectively rather
3. Monazite occurs naturally in the entire Indian	than a corporation.
coastal sands in India.	Which of the statements given above are correct?
4. In India, Government bodies only can process or export monazite.	(a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3

Ans. (d) : Web 3.0 is the third generation web	36. Consider the following communication technologies :
technology. Web 3.0 will have a strong emphasis on decentralized applications and make extensive use of	1. Closed-circuit Television
blockchain-based technologies. An emerging	2. Radio Frequency Identification
governance ideal within the blockchain and Web 3.0	3. Wireless Local Area Network Which of the above are considered Short-Range
community is the concept of a Decentralized	devices/ Technologies?
Autonomous Organization (DAO). Instead of having a	(a) 1 and 2 only (b) 2 and 3 only
central authority that governs the operations of a	(a) 1 and 2 only (b) 2 and 5 only (c) 1 and 3 only (d) $1,2$ and 3
platform, with a DAO, Web 3.0 technologies and communities provide a form of self-governance in an	Ans. (d) : Short Range Devices (SRD) are radio
attempted decentralized approach. Presently, only	devices that offer a low risk of interference with other
centralized repositories are the ones that own user data	radio services, usually because their transmitting
and profit from it. In Web 3.0, users can own and be	power, and their low range. The definition 'Short Range
properly compensated for their time and data. In Web	Device' may be applied to many different types of
3.0 people will control their own data.	wireless equipment, including various forms of:
33. With reference to "Software as a Service (SaaS),"	- Access control (including door and gate openers)
consider the following statements:	- Alarms and movement detectors
1. SasS buyers can customise the user interface and can change data fields.	- Closed-circuit television (CCTV)
2. SaaS users can access their data through their	- Cordless audio devices, including wireless
mobile devices.	microphones Windows Level Area Naturalia
3. Outlook, Hotmail and Yahoo! Mail are forms of	- Wireless Local Area Networks
SaaS.	
Which of the statements given above are correct?	 Radio frequency identification (RFID) Telemetry etc.
(a) 1 and 2 only (b) 2 and 3 only	
(c) 1 and 3 only (d) 1, 2 and 3	37. Consider the following statements: 1. Biofilms can form on medical implants within
Ans. (d): Software as a service (SaaS) is a way of	human tissues.
delivering applications over the Internet as a service.	2. Biofilms can form on food and food processing
Instead of installing and maintaining software, user can	surfaces.
simply access it via the Internet, freeing themselves from complex software and hardware management.	3. Biofilms can exhibit antibiotic resistance.
Examples of popular SaaS providers include:	Which of the statements given above are correct?
BigCommerce, Google Workspace, Salesforce,	(a) 1 and 2 only (\breve{b}) 2 and 3 only
Dropbox, Outlook, Hotmail and Yahoo! Mail etc. Also	(c) 1 and 3 only (d) 1, 2 and 3
SasS buyers can customize the user interface and can	Ans. (d) : A biofilm is an assemblage of surface-
change data fields and can access their data through their mobile devices. Therefore all the given statements	associated microbial cells that is enclosed in an
are correct.	extracellular polymeric substance matrix. Biofilms can
34. Which one of the following statements best	form on medical implants within human tissues. It can
	form on food and food processing surfaces and can
reflects the idea behind the "Fractional Orbital Bombardment System" often talked about in	form on food and food processing surfaces and can exhibit antibiotic resistance. The biofilm provides a
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- 2. Sputnik V vaccine is manufactured using vector based platform.
- 3. COVAXIN is an inactivated pathogen based vaccine.

Which of the statements given above are correct?

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

Ans. (b) : Serum Institute's Covishield used the viral vector platform. It used a chimpanzee adenovirus, ChAdOx1, a type of common cold virus, which attaches itself to cells and injects DNA that tells the cells to make corona virus spike protein. Hence 1^{st} statement is incorrect. Rests of the statements are correct.

40. If a major solar storm (solar-flare) reaches the Earth, which of the following are the possible effects on the Earth?

- 1. GPS and navigation systems could fail.
- 2. Tsunamis could occur at equatorial regions.
- 3. Power grids could be damaged.
- 4. Intense auroras could occur over much of the Earth.
- 5. Forest fires could take place over much of the planet.
- 6. Orbits of the satellites could be disturbed.
- 7. Shortwave radio communication of the aircraft flying over Polar Regions could be interrupted. Select the correct answer using the code given below:
- (a) 1, 2, 4 and 5 only (b) 2, 3, 5, 6 and 7 only (c) 1, 3, 4, 6 and 7 only (d) 1, 2, 3, 4, 5, 6 and 7

Ans. (c): Statements 2 and 5 are incorrect. Solar flares can temporarily alter the upper atmosphere creating disruptions. But it does not cause Tsunamis. It only affects the upper atmosphere. Also there is no causal link between the coronal mass ejections (CMEs) and the deadly forest fires. There is a common misconception that solar storms are associated with extreme geological and atmospheric effects on Earth. Rests of the statements are correct.

- 41. "Climate Action Tracker" which monitors the emission reduction pledges of different countries is a:
 - (a) Database created by coalition of research organizations
 - (b) Wing of "International Panel of Climate Change"
 - (c) Committee under "United Nations Framework Convention on Climate Change"
 - (d) Agency promoted and financed by United Nations Environment Programme and World Bank

Ans. (a) : The Climate Action Tracker is an independent scientific analysis that tracks government climate action and measures it against the globally agreed Paris Agreement aim of "holding global warming well below 2°C, and pursuing efforts to limit warming to 1.5°C." A collaboration of two organisations, Climate Analytics and New Climate Institute, the Climate Action Tracker has been providing this independent analysis to policymakers since 2009.

42. Consider the following statements:

- 1. "The Climate Group" is an international nonprofit organization that drives climate action by building large networks and runs them.
- 2. The International Energy Agency in partnership with the Climate Group launched a global initiative "EP100".

- 3. EP100 brings together leading companies committed to driving innovation in energy efficiency and increasing competitiveness while delivering on emission reduction goals.
- 4. Some Indian companies are members of EP100.
- 5. The International Energy Agency is the Secretariat to the "Under2 Coalition."

Which of the statements given above are correct?

(a) 1, 2, 4 and 5	(b) 1, 3 and 4 only
(c) 2, 3 and 5 only	(d) 1, 2, 3, 4 and 5

Ans. (b) : EP100 is a global initiative led by The Climate Group and the Alliance to Save Energy, not by International Energy Agency. Hence 2^{nd} statement is incorrect. Also, 5^{m} Statement is incorrect as Climate Group is the Secretariat to the Under 2 Coalition and not the International Energy Agency. Rests of the statements are correct.

- 43. "If rainforests and tropical forests are the lungs of the Earth, then surely wetlands function as its kidneys." Which one of the following functions of wetlands best reflects the above statement?
 - (a) The water cycle in wetlands involves surface runoff, subsoil percolation and evaporation.
 - (b) Algae form the nutrient base upon which fish, crustaceans, molluscs, birds, reptiles and mammals thrive.
 - (c) Wetlands play a vital role in maintaining sedimentation balance and soil stabilization.
 - (d) Aquatic plants absorb heavy metals and excess nutrients

Ans. (d) : According to The Ramsar Convention, "wetlands are areas of marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, including areas of marine water, the depth of which at low tide does not exceed six metres." Wetlands are vital for humans, for other ecosystems and for our climate, providing essential ecosystem

services such as water regulation, including flood control and water purification. Wetlands also absorb carbon dioxide to help slow global heating and reduce pollution, hence have often been referred to as the "Kidneys of the Earth".

Therefore, option (d) is the correct answer.

- 44. In the context of WHO Air Quality Guidelines, consider the following statements:
 - 1. The 24 hour mean of $PM_{2.5}$ should not exceed 15 µg/m³ and annual mean of $PM_{2.5}$ should not exceed 5 µg/m³.
 - 2. In a year, the highest levels of ozone pollution occur during the periods of inclement weather.
 - 3. PM_{10} can penetrate the lung barrier and enter the bloodstream.
 - 4. Excessive ozone in the air can trigger asthma.

Which of the statem	ents given above are correct?
(a) 1, 3 and 4	(b) 1 and 4 only

	1 1 1 2 0 1
(c) 2, 3 and 4	(d) 1 and 2 only
(u) 1, 5 unu 1	(b) i und i only

Ans. (b) : Ozone at ground level is formed by the reaction with sunlight (photochemical reaction) of pollutants such as nitrogen oxides (NOx) from vehicle and industry emissions and volatile organic compounds (VOCs) emitted by vehicles, solvents and industry. As a result, the highest levels of ozone pollution occur during periods of sunny weather and not during inclement weather. Hence 2^{nd} statement is incorrect. Again, while particles with a diameter of 10 microns or

less, (\leq PM10) can penetrate and lodge deep inside the Select the correct answer using the code given below: lungs, the even more health-damaging particles are (a) 1, 3 and 4 only (b) 1, 3, 5 and 6 only those with a diameter of 2.5 microns or less, (\leq PM2.5). (c) 2, 4, 5 and 6 only (d) 1, 2, 4, 5 and 6 PM2.5 can penetrate the lung barrier and enter the blood system. Hence 3rd statement is also incorrect. Ans. (a): Out of the given options only Alfalfa, Chickpea and Clovers are nitrogen- fixing plants. Rests of the statements are correct. Nitrogen-Fixing Plants are capable of fixing Nitrogen 45. With reference to "Gucchi" sometimes mentioned in the news, consider the following statements: in a natural way to provide plant-adjusted Nitrogen without any industrial harm to nature. 49. "Biorock technology" is talked about in one of the following situations? 1. It is a fungus. which 2. It grows in some Himalavan forest areas. It is commercially cultivated in the Himalayan 3. (a) Restoration of damaged coral reefs foothills of north-eastern India. (b) Development of building materials using Which of the statements given above is/are correct? plant residues exploration/ (a) 1 only (b) 3 only (c) 1 and 2 (d) 2 and 3 (c) Identification of areas for extraction of shale gas Ans. (c) : Guchhi mushroom is a species of fungus in (d) Providing salt licks for wild animals in the family Morchellaceae of the Ascomycota. They are forest/protected areas pale yellow in colour with large pits and ridges on the surface of the cap, raised on a large white stem. guchhi faces lots of challenges in its cultivation. The **Ans. (a) :** The Zoological Survey of India (ZSI), with help from Gujarat's forest department, is attempting a mushrooms cannot be cultivated commercially and process for the first time to restore coral reefs using bio grow in conifer forests across temperature regions, and rock or mineral accretion technology. A bio rock the foothills in Himachal Pradesh, Uttarakhand, and structure was installed one nautical mile off the Jammu and Kashmir. And it takes months for villagers to collect enough of these mushrooms, dry them and Mithapur coast in the Gulf of Kachchh. 50. The "Mivawaki method' is well known for the: bring them to the market. (a) Promotion of commercial farming in arid 46. With reference to polyethylene terephthalate, the use of which is so widespread in our daily lives, and semi-arid areas (b) Development of gardens using genetically consider the following statements: modified flora Its fibres can be blended with wool and cotton 1 (c) Creation of mini forests in urban areas fibres to reinforce their properties. (d) Harvesting wind energy on coastal area and 2. Containers made of it can be used to store any on sea surfaces. alcoholic beverage. Ans. (c) : Miyawaki is a method of afforestation that 3. Bottles made of it can be recycled into other requires quite a small space, at least 20 square feet. One products. must seed plants very close to save space and dense Articles made of it can be easily disposed of by 4 plant growth. It was developed by Akira Miyawaki of incineration without causing greenhouse gas Japan. Bombay Municipal Corporation (BMC) has emissions. been using the Miyawaki method to create tiny urban Which of the statement given above are correct? forests in the Metropolitan areas of Mumbai. (a) 1 and 3 (b) 2 and 4 (c) 1 and 4 (d) 2 and 3 51. In the Government of India Act 1919, the functions of Provincial Government were divided into "Reserved" and "Transferred" subjects. Ans. (a) : Plastic packaging is dangerous to human health and the country liquor and country made foreign Which of the following were treated as liquor cannot be sold in such bottles. That's why "Reserved" subjects ? Maharashtra government has announced the ban on sale of alcohol in PET bottles from April 1. Therefore 2 1. Administration of Justice statement is incorrect. Again, Polyethylene, like other 2. Local Self-Government plastics, is not inert and is known to release additives 3. Land Revenue and other degradation products into the environment 4. Police throughout its lifetime. Hence 4th statement is also Select the correct answer using the code given below incorrect. (a) 1, 2 and 3 (b) 2, 3 and 4 (c) $\overline{1}$, 3 and 4 (d) 1, 2 and 4 PET fibres are often used in durable-press blends with Ans. (c): Subjects were divided into two lists reserved other fibres such as rayon, wool, and cotton, reinforcing the inherent properties of those fibres while contributing to the ability of the fabric to recover from and transferred in the Government of India act 1919. Reserved subjects: Law and order, finance, land revenue, irrigation, police etc. to be administered by the governor through his executive council. wrinkling. Also Polyethylene terephthalate is the most widely recycled plastic. Transferred subjects: Education, health, local 47. Which of the following is not a bird? government, industry, agriculture, excise etc. to be (a) Golden Mahseer (b) Indian Nightjar administered by ministers nominated from among the (c) Spoonbill (d) White Ibis elected members of legislative council. Ans. (a): Golden Mahseer is a fish that lives in fast-52. In medieval India, the term "Fanam" referred to: moving waters, inhabiting hill streams with a rocky and (a) Clothing (b) Coins (c) Ornaments (d) Weapons stony substrate. Rests are type of birds. Ans. (b): The Fanam coins were the regular unit of 48. Which of the following are nitrogen-fixing currency in medieval Travancore and appear to have plants? been extensively used for trading in the region of South Alfalfa 2. Amaranth 1. India. The words Fanam and Panam literally mean money and are still used as a synonym for wealth in Chickpea Clover 3. 4. 5. Purslane (Kulfa) Spinach Kerala in the native language of Malayalam. 6.

53. Consider the following freedom fighters: mahakavya by Hemachandra which details the histories of the earliest Jain teachers. Barindra Kumar Ghosh 1. 3. The Avadanasataka (A Hundred Glorious Deeds) are 2. Jogesh Chandra Chatterjee Jataka Stories (Buddhist tales) are thematically Rash Behari Bose organized into ten books that portray the truth of the Which of the statement given above are correct? doctrine of karma (action) and the power of religious (a) 1 and 2 (b) 2 only (c) 1 and 3 (d) 3 only dana (giving), faith, and devotion. Ans. (d): The Ghadar Party was a political revolutionary organization founded in the United States 4 Trishashthilkshana Mahapurana is a major Jain text composed largely by Acharya Jinasena during the of America by migrated Indians. The formation of the rule of Rashtrakutas. Ghadar Party was primarily the work of Sikhs. Sohan 56. With reference to Indian history, consider the Singh, Kartar Singh, Abdul Mohamed Barakatullah, and Rashbehari Bose were among the prominent following pairs: leaders who laid the groundwork for the establishment **Historical person** Known as of an Indian political organization in the United States 1. Aryadeva Jaina scholar and Canada. 2. Dignaga Buddhist scholar With reference to the proposals of Cripps 54. 3. Nathamuni -Vaishnava scholar Mission, consider the following statements: How many pairs given above are correctly 1. The Constituent Assembly would have matched? the Provincial members nominated by (a) None of the pairs (b) Only one pair Assemblies as well as the Princely States. (d) All three pairs (c) Only two pairs 2. Any Province, which is not prepared to Ans. (c) : Correct match isaccept the new Constitution would have the 1. Aryadeva - Buddhist scholar right to sign a separate agreement with 2. Dignaga - Buddhist scholar Britain regarding its future status. - Vaishnava scholar 3. Nathamuni Which of the statements given above is/are correct? (b) 2 only (a) 1 only 57. With reference to Indian history, consider the (c) Both 1 and 2 (d) Neither 1 nor 2 following statements: Ans. (b): In March 1942, a mission headed by Stafford The first Mongol invasion of India happened 1. during the reign of Jalal-ud-din Khalji. Cripps was sent to India with constitutional proposals to seek Indian support for the war. During the reign of Ala-ud-din Khalji, one 2. The main proposals of the Cripps mission were as Mongol assault marched up to Delhi and follows: An Indian Union with a dominion status would besieged the city. be set up; it would be free to decide its relations with Muhammad-bin-Tughlag temporarily lost portions 3 the Commonwealth and free to participate in the United Nations and other international bodies. of north-west of his kingdom to Mongols. Which of the statements given above is/are correct? After the end of the war, a constituent assembly would (c) 1 and 3 (a) 1 and 2 (b) 2 only (d) 3 only be convened to frame a new constitution. Members of Ans. (b): Statement:1 The first Mongol invasion of this assembly would be partly elected by the provincial India happened during the reign of Behram Shah in assemblies through proportional representation and 1241 AD. Hence statement 1 is not correct. partly nominated by the princes. (Hence, Statement 1 is Statement: 2 During the reign of Alauddin Khilji, incorrect). Mongols invaded India and put a siege around Delhi in The British government would accept the new 1303. So, it is correct. constitution subject to two conditions: (i) any province Statement: 3 After 1307 AD, the Mongol threat not willing to join the Union could have a separate suddenly receded; and only on one occasion constitution and form a separate Union, and (ii) the new constitution- making body and the British government subsequently does it appear to have attained to the same would negotiate a treaty to effect the transfer of power proportions. Early in the reign of Muhammad Tughluq, and to safeguard racial and religious minorities. (Hence, the Chaghatai Khan Tarmashirin led an incursion in Statement 2 is correct). which the Mongol forces once again advanced to the Jumna but retired without actually entering the capital In addition to that, defence of India would remain in British hands and the governor-general's powers would when he was paid a ransom. Thereafter, India was free of major inroads from this guarter for another sixty remain intact. years or more, until the invasion of Delhi by Timur in 55. With reference to Indian history, consider the 1398. So, Statement 3 is not correct. following texts: 58. With reference to Indian history, who of the 1. Nettipakarana following were known as "Kulah-Daran"? 2. Parishishtaparvan (a) Arab merchants (b) Qalandars 3. Avadanashataka (d) Sayyids (c) Persian calligraphists 4. Trishashtilakshana Mahapurana Ans. (d) : The Sayyids put on a pointed cap (kulah) and Which of the above are Jaina texts? (a) 1.2 and 3 (b) 2 and 4 only they were known as 'Kulah Daran' during Delhi (c) 1.3 and 4(d) 2, 3 and 4 sultanate. The Sayyids were claimed to descent from the Prophet Ans. (b): 1. Nettipakarana is a guide to help those who through his daughter Fatima. They Commanded special already understand the teaching and present it to others. respect in Muslim society. The Netti methods were taught by the Buddha's disciple Even the Timur protected the life of Savvids during his Kaccana (also Katyayana or Kaccayana). invasion in India, although his policy was of general 2. The Parishishtaparvan also known the as slaughter. Sthaviravalicharitra is a 12th-century Sanskrit

59. With reference to Indian history, consider the following statements:	(a) 1 and 2 only (b) 2 and 3 only
1. The Dutch established their factories/ warehouses on the east coast on lands granted to them by Gajapati rulers.	(c) 1 and 3 only (d) 1, 2 and 3 Ans. (a): Tight monetary policy is an action undertaken
 Alfonso de Albuquerque captured Goa from the Bijapur Sultanate. 	by a central bank such as the Federal Reserve to slow down overheated economic growth. Central banks engage in tight monetary policy when an economy is
3. The English East India Company established a factory at Madras on a plot of land leased	accelerating too quickly or inflation is rising too fast. Capital flight destabilizes interest rates and exchange
from a representative of the Vijayanagara empire.	rates and also reduces monetary control. It drives up the
Which of the statements given above are correct?	marginal costs of foreign borrowing. Thus, capital
(a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only (d) 1 2 and 3	flight may increase the interest cost of firms with existing external commercial borrowings. So, statement
(c) 1 and 3 only (d) 1, 2 and 3 Ans. (b): Gajapati rulers in Odisha lasted from	2 is correct.
1434AD to 1541AD. Dutch factories established on the	Statement 3 is incorrect: Devaluation of domestic currency does not affect the External Commercial
eastern coast are: Masulipattanam (1605), Pulicat	Borrowings as it is denominated in the foreign currency
(1610), Bimilipatam / Bhimunipatnam (1641), Chinsura (1653). So, statement 1 is not correct.	and not in the domestic currency.
Alfonso de Albuquerque captured Goa for Portuguese	Note : UPSC has deleted the question.
in 1510 from Adil Shahi rulers of Bijapur. So,	62. Consider the following States: 1. Andhra Pradesh 2. Kerala
statement 2 is correct.	3. Himachal Pradesh 4. Tripura
In 1639, the English East India Company received permission from local ruler Darmala Venkatadri	How many of the above are generally known as
Nayaka to establish a factory at Madras. Fort Saint	tea-producing States?
George was built in 1640. Madras was the first piece of	(a) Only one State(b) Only two States(c) Only three States(d) All four States
land leased by the English East India Company, and significantly without any war but through friendship	Ans. (d): Major tea producing states are Assam, hills of
and negotiation. Raja Darmala Venkatadri was a	Darjeeling and Jalpaiguri districts, West Bengal, Tamil
representative of the Vijayanagara Empire. So, statement 3 is correct.	Nadu and Kerala. Apart from these, Himachal Pradesh, Uttarakhand, Meghalaya, Andhra Pradesh and Tripura
60. According to Kautilya's Arthashastra, which of	are also tea-producing states, but in a small quantity.
the following are correct?	63. Consider the following statements
1. A person could be a slave as a result of a judicial punishment.	1. In India, credit rating agencies are regulated by Reserve Bank of India.
2. If a female slave bore her master a son, she was legally free.	2. The rating agency popularly known as ICRA is a public limited company.
3. If a son born to a female slave was fathered	3. Brickwork Ratings is an Indian credit rating agency. Which of the statements given above are correct?
by her master, the son was entitled to the legal status of the master's son.	(a) 1 and 2 only (b) 2 and 3 only
Which of the statements given above are correct?	(c) 1 and 3 only (d) 1, 2 and 3.
(a) 1 and 2 only (b) 2 and 3 only	Ans. (b) : Statement 1 is incorrect: Credit Rating
(c) 1 and 3 only (d) 1, 2 and 3	Agencies form an essential part of the financial markets. They are regulated by SEBI and not by RBI
Ans. (d) : The Arthashastra is an Indian treatise on politics, economics, military strategy, the function of	under the powers derived from the Securities and
the state, and social organization attributed to Kautilya	Exchange Board of India (Credit Rating Agencies) Regulations, 1999.
(also known as Chanakya). He was instrumental in	ICRA Limited (formerly Investment Information and
establishing the reign of the great king Chandragupta Maurya (321-297 BCE). There are several types of	Credit Rating Agency of India Limited) was set up in
enslavement that is given in Arthashastra. One of the	1991 by leading financial/investment institutions, commercial banks and financial services companies as
prime methods of enslavement was to have a person as	an independent and professional investment
a slave as a result of judicial punishment for some sort of criminal demeanor. Thus statement 1 is correct.	Information and Credit Rating Agency. ICRA is a Public Limited Company, with its shares listed on the
There were variety of protection offered to the slaves,	Bombay Stock Exchange and the National Stock
especially to the women slaves. As per the	Exchange. So, statement 2 is correct.
Arthashastra, when a child is begotten on a female slave by her master, both the child and its mother shall	Statement 3 is correct: Brickwork Ratings (BWR) is a SEBI registered Indian Credit Rating Agency. It has
at once be recognised as free.	also been accredited by RBL It offers rating services on
If a son born to a female slave was fathered by her	Bank Loans. NCD. Commercial Paper, Fixed deposits,
master, the son was entitled to the legal status of the master's son. So, statement 2 and statement 3 are correct.	Securitized paper, Security receipts etc.
However UPSC has considered option (b) as correct.	64. With reference to the Banks Board Bureau (BBB), which of the following statements are correct?
61. Consider the following statements:	1. The Governor of RBI is the Chairman of BBB.
1. Tight monetary policy of US Federal Reserve could lead to capital flight.	2. BBB recommends for the selection of heads for Public Sector Banks.
2. Capital flight may increase the interest cost	3. BBB helps the Public Sector Banks in
of firms with existing External Commercial	developing strategies and capital raising plans.
Borrowings (ECBs).	Select the correct answer using the code given below: (a) 1 and 2 only (b) 2 and 3 only
3. Devaluation of domestic currency decreases the currency risk associated with ECBs.	(a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3

Ang (h) Statement 1 is in comment.	67 Consider the following statements:
Ans. (b): Statement 1 is incorrect:	67. Consider the following statements: 1. Vietnam has been one of the fastest growing
Banks Board Bureau comprises the Chairman, three ex-	economies in the world, in the recent years.
officio members i.e Secretary, Department of Public Enterprises, Secretary of the Department of Financial	2. Vietnam is led by a multi-party political
Services and Deputy Governor of the Reserve Bank of	system
India, and five expert members, two of which are from	3. Vietnam's economic growth is linked to its
the private sector. The Chairman is selected by the	integration with global supply chains and
central government and RBI governor does not head it.	focus on exports.
The BBB advises the Government on matters relating	4. For a long time Vietnam's low labour costs
to appointments, confirmation or extension of tenure	and stable exchange rates have attracted
and termination of services of the Board of Directors in	global manufacturers.
Public Sector Banks (PSBs) and financial institutions	5. Vietnam has the most productive e-service
(FIs). It is responsible for the selection and appointment	sector in the Indo-Pacific region.
of Board of Directors of PSBs and FIs. So, statement 2	Which of the statements given above are correct?
is correct.	(a) 2 and 4 (b) 3 and 5 (c) 1, 3 and 4 (d) 1 and 2
One of the functions of the BBB is to help Public	Ans. (c) : According to a forecast by Pricewaterhouse
Sector Banks in terms of developing business strategies	Coopers in February 2017, Vietnam may be the fastest-
and capital raising plan etc. So, statement 3 is correct.	growing economy of the world, with a potential annual
65. With reference to Convertible Bonds, consider	GDP growth rate of about 5.1%, which would make its
the following statements:	economy the 10th-largest in the world by 2050. Hence,
1. As there is an option to exchange the bond	Statement 1 is correct.
for equity, Convertible Bonds pay a lower	Vietnam is a Marxist–Leninist one-party state based on
rate of interest.	democratic centralism. Hence, Statement 2 is incorrect.
2. The option to convert to equity affords the	Vietnam's economic growth is linked to its integration
bondholder a degree of indexation to rising	with global supply chains and focus on exports. Hence,
consumer prices. Which of the statements given above is/are	Statement 3 is correct.
correct?	Vietnam has low labour costs and stable exchange rates
(a) 1 only (b) 2 only	which attract global investments. Hence, Statement 4 is
(c) Both 1 and 2 (d) Neither 1 nor 2	correct.
Ans. (c): Statement 1 is correct: Convertible bonds	68. In India, which one of the following is responsible
tend to offer a lower coupon rate or rate of return in	for maintaining price stability by controlling inflation?
exchange for the value of the option to convert the bond	(a) Department of Consumer Affairs
into common stock. Investors will generally accept a	(b) Expenditure Management Commission
lower coupon rate on a convertible bond, compared	(c) Financial Stability and Development Council
with the coupon rate on another identical regular bond,	(d) Reserve Bank of India
because of its conversion feature. This enables the	Ans. (d): Reserve Bank of India is India's central bank,
issuer to save on interest expenses, which can be	which has key function to keep check on the inflation
substantial in the case of a large bond issue.	by use of monetary policy in forms of qualitative and
One of the advantages of convertible bonds is that the option to convert to equity affords the bondholder a	quantitative measures.
degree of indexation to rising consumer prices. So,	69. With reference to Non-Fungible Tokens (NFTs),
statement 2 is correct.	consider the following statements:
66. Consider the following:	1. They enable the digital representation of
1. Asian Infrastructure Investment Bank	physical assets.
2. Missile Technology Control Regime	2. They are unique cryptographic tokens that
3. Shanghai Cooperation Organisation	exist on a blockchain.
India is a member of which of the above?	3. They can be traded or exchanged at
(a) 1 and 2 only (b) 3 only	equivalency and therefore can be used as a medium of commercial transactions.
(c) 2 and 3 only (d) 1, 2 and 3	Which of the statements given above are correct?
Ans. (d): The Asian Infrastructure Investment Bank	(a) 1 and 2 only (b) 2 and 3 only
(AIIB) is a multilateral development bank that aims to	(a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only (d) $1, 2$ and 3
improve economic and social outcomes in Asia. India	Ans. (a): Non-fungible tokens, often referred to as
joined Asian Infrastructure Investment Bank on 11 th	NFTs, are blockchain-based tokens that each represent
January, 2016, Option 1 is correct.	a unique asset like a piece of art, digital content, or
Option 2 is correct. The Missile Technology Control	media. An NFT can be thought of as an irrevocable
Regime (MTCR) is a multilateral export control regime	digital certificate of ownership and authenticity for a
whose members have an informal political	given asset, whether digital or physical. They cannot be
understanding to limit the proliferation of missiles and	traded or exchanged at equivalency and therefore,
missile technology. India became a member of the	cannot be used as a medium of commercial
MTCR in 2016.	transactions.
The Shanghai Cooperation Organization (SCO) is an intergovernmental organization founded in Shanghai on	70. Consider the following pairs:
15 June 2001. The SCO currently comprises eight	Reservoirs States
Member States (China, India, Kazakhstan, Kyrgyzstan,	1. Ghataprabha - Telangana
Russia, Pakistan, Tajikistan and Uzbekistan). India	2. Gandhi Sagar - Madhya Pradesh
became permanent member of the SCO in 2017. So,	3. Indira Sagar - Andhra Pradesh
statement 3 is correct.	4. Maithon - Chhattisgarh

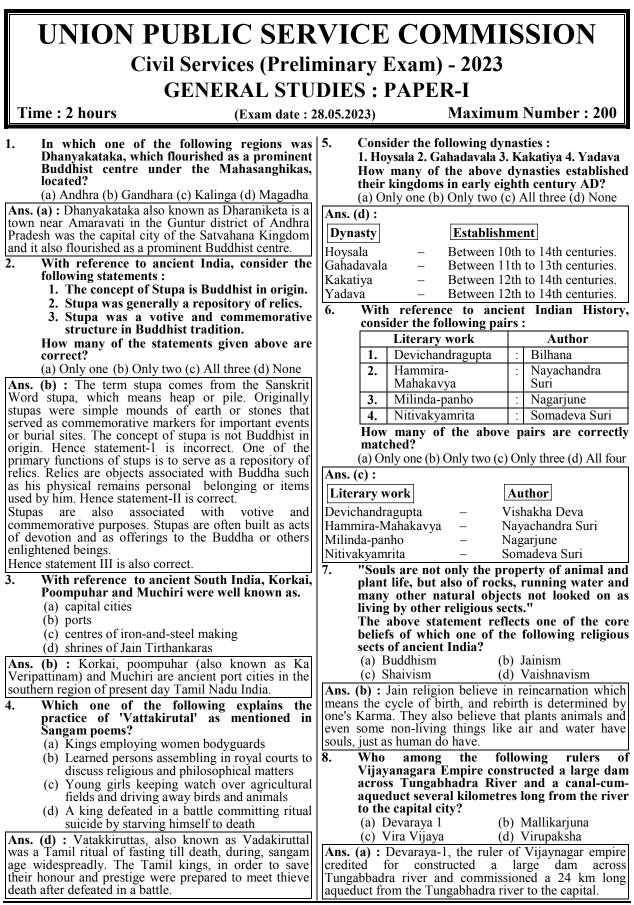
How many pairs given above are not correctly matched? (a) Only one pair (b) Only two pairs	tribal people to non-tribal people.(b) This would create a local self-governing
(c) Only three pairs (d) All four pairs Ans. (c):	(c) This would convert that area into a Union
Reservoirs States	(d) The State having such areas would be
Ghataprabha - Karnataka	declared a Special Category State.
Gandhi Sagar – Madhya Pradesh Indira Sagar – Madhya Pradesh	Ans. (a): The Fifth Schedule of the Constitution deals
Maithon - Jharkhand	with the administration and control of Scheduled Areas as well as of Scheduled Tribes residing in any State
 71. In India, which one of the following compiles information on industrial disputes, closures, retrenchments and lay-offs in factories employing workers? (a) Central Statistics Office (b) Department for Promotion of Industry and 	other than the States of Assam, Meghalaya, Tripura and Mizoram. Under the provisions of 5 th scheduled of the constitution of India the Governor can make regulations which would prevent the transfer of land of tribal people to non-tribal people.
Internal Trade	74. Consider the following statements:
(c) Labour Bureau(d) National Technical Manpower Information System	1. The India Sanitation Coalition is a platform to promote sustainable sanitation and is funded by the Government of India and the
Ans. (c): Labour Bureau is an attached office under Ministry of Labour and Employment. It was set up on 1st October 1946. It is entrusted with the work of compilation collection analysis and discemination of	 World Health Organization. 2. The National Institute of Urban Affairs is an apex body of the Ministry of Housing and Urban Affairs in Government of India and
compilation, collection, analysis and dissemination of statistics on different aspects of labour.	provides innovative solutions to address the
72. In India, what is the role of the Coal Controller's	challenges of Urban India. Which of the statements given above is/are correct?
Organization (CCO)? 1. CCO is the major source of Coal Statistics in	(a) 1 only (b) 2 only
Government of India. 2. It monitors progress of development of	(c) Both 1 and 2 (d) Neither 1 nor 2 Ans. (d) : The India Sanitation Coalition was launched
Captive Coal/Lignite blocks.	on June 25, 2015, at FICCI, New Delhi. ISC is a multi- stakeholder platform that brings together the private
3. It hears any objection to the Government's notification relating to acquisition of coal-	sector, government, financial institutions, civil society
bearing areas.	groups, media, donors/bi-lateral/multilateral, experts etc. to work in the sanitation space to drive sustainable
4. It ensures that coal mining companies deliver the coal to end users in the prescribed time.	sanitation through a partnership model. It is not funded by WHO. Hence 1 st statement is incorrect.
Select the correct answer using the code given below :	The National Institute of Urban Affairs (NIUA) is India's leading national think tank on urban planning and development. As a hub for the generation and
(a) 1, 2 and 3 (b) 3 and 4 only (c) 1 and 2 only (d) 1, 2 and 4	dissemination of cutting-edge research in the urban
Ans. (a): The Coal Controller's Organisation (CCO) is	sector, NIUA seeks to provide innovative solutions to address the challenges of a fast urbanizing India, and
a subordinate office of the ministry of coal, having its headquarters at Kolkata. It collects and maintains coal	pave the way for more inclusive and sustainable cities of the future. It was established 1976 as an autonomous
production data of all private and public sector coal	body under the socities Registration Act. Hence 2 nd
mines in the country. Under Collection of Statistics Act, 2008, Coal Controller has been made the statistical	statement is correct. 75. Which one of the following has been constituted
authority with respect to coal and lignite statistics,	under the Environment (Protection) Act, 1986?
entrusted with the responsibility of carrying out Annual Coal & Lignite survey and publishing of Provisional	(a) Central Water Commission (b) Central Cround Water Board
Coal Statistics and Coal Directory of India. It is also entrusted with the task of monitoring captive mines.	(b) Central Ground Water Board(c) Central Ground Water Authority
Work such as permission for opening and reopening of	(d) National Water Development Agency
coal mine has been entrusted to CCO. Under Coal Bearing Area (Acquisition and	Ans. (c): Central Ground Water Authority (CGWA) has been constituted under Section 3 (3) of the
Development) Act, 1957- Coal Controller is the	Environment (Protection) Act, 1986 to regulate and
competent authority to hear any objection to the Central Government's Notification relating to acquisition of	control development and management of ground water resources in the country.
coal bearing land and to furnish his reports to Central Government.	76. With reference to the "United Nations Credentials Committee", consider the following statements:
Ensuring that coal mining companies deliver the coal to end users in the prescribed time is not the function of	1. It is a committee set up by the UN Security
Coal Controller's Organization (CCO).	2. It traditionally meets in March, June and
73. If a particular area is brought under the Fifth Schedule of the Constitution of India, which one	September every year. 3. It assesses the credentials of all UN
of the following statements best reflects the consequence of it?	members before submitting a report to the General Assembly for approval.

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 ay participate in the sessions and workings of the teneral Assembly and maintain missions at the UN teadquarters. With reference to the "Tea Board" in India, consider the following statements: The Tea Board is a statutory body. It is a regulatory body attached to the Ministry of Agriculture and Farmers Welfare. The Tea Board's Head Office is situated in Bengaluru. The Board has overseas offices at Dubai and Moscow. 	 3. Some people who fled from civil war in Somalia live in Dadaab refugee complex in Kenya. Which of the statements given above is/are correct? (a) 1 and 2 (b) 2 only (c) 2 and 3 (d) 3 only Ans. (c) : The Bidibidi Refugee Settlement is located in the West Nile Area of Uganda, and is home to over 270,000 South Sudanese refugees, the second largest refugee settlement in the world. Hence, statement 1 is not correct and statement 2 is correct. The Dadaab refugee complex has a population of over 2 lakh registered refugees and asylum seekers. Dadaab 3 YCT
ates, international organizations and other entities ermanent Observer Status. However, The UN Charter nd the General Assembly Rules of Procedure have no rovisions related to granting permanent observer status nd is based on practice only. Permanent Observers	 82. Consider the following statements: Bidibidi is a large refugee settlement in north-western Kenya. 2. Some people who fled from South Sudar civil war live in Bidibidi. 2. Some people who fled from south sudar civil war live in Bidibidi.
(c) 1 and 3 only (d) 1, 2 and 3 ns. (d): All the given statements are correct regarding the United Nations General Assembly i.e. The United lations General Assembly may grant non-member	reflectors. But, they don't stop the longwave energy from escaping to space. Therefore, low clouds help to cool the Earth. Statement (2) is incorrect.
headquarters. Which of the statements given above are correct ? (a) 1 and 2 only (b) 2 and 3 only	clouds. Therefore, high clouds work to "trap" more energy than the low clouds. Statement (1) is incorrect. Low clouds are often quite thick and reflect lots of sunlight back to space. Low clouds are excellent
observer status in the UN General Assembly.3. Permanent Observers in the UN General Assembly can maintain missions at the UN	Ans. (d) : High clouds are often thin and do not reflect very much. They let lots of the Sun's heat into it. They radiate less energy into space than the lower warmer
observer status to the non-member States.2. Inter-governmental organisations can seek	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
 B. With reference to the United Nations General Assembly, consider the following statements: 1. The UN General Assembly can grant 	infrared radiation emanating from the Earth' surface and thus cause warming effect.
aining, search and rescue and environmental rotection matters relevant to ships operating in the shospitable waters surrounding the two poles.	 High clouds primarily reflect solar radiation and cool the surface of the Earth. Low clouds have a high absorption of
.ns. (a) : Polar Code is the International code of safety or ships operating in polar waters that covers the full ange of design, construction, equipment, operational,	believing that a company's products are environmentally friendly. 81. Consider the following statements:
studies in the North Pole and South Pole.(d) It is a trade and security agreement of the member countries of the Arctic Council.	about how a company's products are more environmentally sound. Greenwashing is considered an unsubstantiated claim to deceive consumers into
their territories in the polar region.(c) It is a set of norms to be followed by the countries whose scientists undertake research	Ans. (a): Greenwashing is the process of conveying a false impression or providing misleading information
(b) It is the agreement of the countries around the North Pole regarding the demarcation of	 (c) Ignoring the disastrous ecological consequence while undertaking infrastructure development (d) Making mandatory provisions for environmenta
 Which one of the following statements best describes the 'Polar Code'? (a) It is the international code of safety for ships 	 (b) Non-inclusion of ecological/ environmenta costs in the Annual Financial Statements o a country
ssembly thereon (Rule 28 of the Rules of Procedure f the General Assembly). Therefore 3 rd statement is prrect.	 (a) Conveying a false impression that a Company's products are eco-friendly and environmentally sound
redentials of representatives. The Committee is nandated to examine the credentials of representatives f Member States and to report to the General	Hence 4th statement is correct. 80. Which one of the following best describes the tern "greenwashing"?
becember) of the General Assembly. Hence 2 nd atement is also incorrect. The Committee reports to the Assembly on the	Bengaluru. (Hence 2 nd and 3 rd statements are incorrect). The Tea Board of India has overseas offices in Moscow, Dubai, Hamburg, London and New York.
ssembly. Hence 1 st statement is incorrect. Credentials Committee is appointed at the beginning f each regular session (intensively from September to	on 1st April 1954. Hence 1 st statement is correct. It is functions under the Ministry of Commerce and its Head Office is situated in Kolkata and not in
a committee of the United Nations General	up under section 4 of the Tea Act, 1953 and constituted

 refugee complex consists of three camps. The first camp was established in 1991, when refugees fleeing the civil war in Somalia started to cross the border into Kenya. So, statement 3 is correct. Therefore, option (c) is the correct answer. 83. Consider the following countries: Armenia 2. Azerbaijan 3. Croatia Romania 5. Uzbekistan Which of the above are members of the Organization of Turkic States? 1, 2 and 4 (b) 1 and 3 (c) 2 and 5 (d) 3, 4 and 5 Ans. (c) : The Organization of Turkic States, formerly called the Turkic Council or the Cooperation Council of Turkic Speaking States, is an international organization comprising prominent independent Turkic countries: Azerbaijan, Kazakhstan, Kyrgyzstan, Turkey and Uzbekistan. Therefore the correct answer is option (c). 	 The 1982 United Nations Convention on the Law of the Sea (UNCLOS) defines an Exclusive Economic Zone (EEZ). It is an area that shall not extend beyond 200 nautical miles from the baselines. The EEZ is measured from the breadth of the territorial sea. Hence, Statement 3 is correct. Hence, option (d) is the correct answer. 86. Which one of the following statements best reflects the issue with Senkaku Islands, sometimes mentioned in the news? (a) It is generally believed that they are artificial islands made by a country around South China Sea. (b) China and Japan engage in maritime disputes over these islands in East China Sea. (c) A permanent American military base has have a statement American Content of the provide that the provide that the statement of the permanent American military base has have been set up there to help.
 84. Consider the following statements: 1. Gujarat has the largest solar park in India. 2. Kerala has a fully solar powered International 	 been set up there to help Taiwan to increase its defence capabilities. (d) Though International Court of Justice declared them as no man's land, some South East Agin countries claim them
 Airport. 3. Goa has the largest floating solar photovoltaic project in India. Which of the statements given above is/are correct? 	South-East Asian countries claim them. Ans. (b) : The Senkaku Islands are a group of uninhabited islands in the East China Sea. They are known in China as the Diaoyu Islands. The islands are
(a) 1 and 2 (b) 2 only (c) 1 and 3 (d) 3 only Ans. (b) : India's Bhadla Solar Park in Rajasthan is the largest solar power park in the world. Hence, Statement (1) is incorrect.	the focus of a territorial dispute between Japan and China. China claims the discovery and ownership of the islands from the 14th century, while Japan maintained ownership of the islands from 1895 until its surrender at the end of World War II. Hence option (b) is the
Kerala's Cochin International Airport Ltd (CIAL) is the first airport in the world that would be running fully on solar power. Hence, Statement (2) is correct. The 600 MW capacity floating solar project on	correct answer.87. Consider the following pairs: CountryImportant reason for Being in the news recently
Omkareshwar reservoir (in Madhya Pradesh) is not only India's but also the world's largest floating solar project so far. Statement 3 is incorrect. 85. With reference to the United Nations Convention	 Chad - Setting up of permanent military base by China Guinea - Suspension of Constitution
 on the Law of Sea, consider the following statements: 1. A coastal state has the right to establish the breadth of its territorial sea up to a limit not 	 Lebanon - Lebanon - Severe and prolonged economic depression Tunisia - Suspension of Parliament by Descident
exceeding 12 nautical miles, measured from baseline determined in accordance with the convention.2. Ships of all states, whether coastal or land-locked, enjoy the right of innocent	President How many pairs given above are correctly matched? (a) Only one pair (b) Only two pairs (c) Only three pairs (d) All four pairs
 passage through the territorial sea. 3. The Exclusive Economic Zone shall not extend beyond 200 nautical miles from the baseline from which the breadth of the territorial sea is measured. Which of the statements given above are correct? (a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only (d) 1,2 and 3 Ans. (d) : According to Article 3 under section 2 of United nations conventions (UNCLOS) regarding the territorial limits of the sea, every state has the right to establish the breadth of its territorial sea up to a limit not exceeding 12 nautical miles, measured from baselines determined in accordance with this Convention. Hence, Statement 1 is correct. According to Article 17 under section 3 of United nations conventions (UNCLOS), ships of all States, whether coastal or land-locked, enjoy the right of innocent passage through the territorial sea. Hence, 	Ans. (c) : In 2020, President Idris Deby Itno was killed during fighting against rebels in northern Chad, he was succeeded by his son, Mahamat Idriss Deby Itno, as the head of a military junta. It was not in the news for setting up of permanent military base by China. So, pair (1) is not correctly matched. Some US officials are reported to have warned that Beijing plans to establish a permanent military installation in Guinea. Recently, Guinea's military leaders have suspended the constitution and closed the country's borders. So, pair (2) is correctly matched. Lebanon is enduring a severe and prolonged economic depression. According to the latest World Bank Lebanon Economic Monitor (LEM), the economic and financial crisis is likely to rank in the top 10, possibly top 3, most severe crises episodes globally since the mid-nineteenth century. So, pair (3) is correctly matched. Tunisia's President Kais Saied has dissolved the

88 Consider the following pairs:	
88. Consider the following pairs: Region often mentioned in the news Country	Ans. (b) : Site of Ashoka's Location in the
1. Anatolia - Turkey	major rock edicts State of
2. Amhara - Ethiopia	1. Dhauli — Odisha
3. Cabo Delgado - Spain	2. Erragudi — Andhra Pradesh
	3. Jaugada — Odisha
4. Catalonia - Italy	4. Kalsi — Uttarakhand
How many pairs given above are correctly matched?	92. Consider the following pairs:
(a) Only one pair (b) Only two pairs	King Dynasty
(c) Only three pairs (d) All four pairs	1. Nannuka — Chandela
Ans. (b) : Anatolia – Turkey, Amhara – Ethiopia	2. Jayashakti — Paramara
Cabo delgado – Mozambique, Catalonia – Spain	3. Nagabhata II — Gurjara-Pratihara
89. With reference to Indian laws about wildlife	4. Bhoja — Rashtrakuta
protection, consider the following statements:	How many pairs given above are correctly matched?
1. Wild animals are the sole property of the	(a) Only one pair (b) Only two pairs
government.	(c) Only three pairs (d) All four pairs
2. When a wild animal is declared protected,	Ans. (b) : Nannuka was the founder of the Chandela
such animal is entitled for equal protection	dynasty of India. He ruled in the Jejakabhukti region.
whether it is found in protected areas or	Jayashakti was a 9th-century ruler from the Chandela
outside.	dynasty of Central India.
3. Apprehension of a protected wild animal	Nagabhata II was an Indian Emperor from Gurjara- Pratihara dynasty. He ascended the throne of
becoming a danger to human life is sufficient	GurjaraPratihara dynasty after his father Vatsraja.
ground for its capture or killing.	Bhoja popularly known as Raja Bhoj Parmar (reigned
Which of the statements given above is/are correct?	c. 1010–1055 CE) was an Indian King from the
(a) 1 and 2 (b) 2 only (c) 1 and 3 (d) 3 only	Paramara dynasty.
Ans. (a) : As per section 39 of Wild Life Protection Act	93. Which one of the following statements about Sangam
1972 wild animals are government property. However	literature in ancient South India is correct?
Section 40A provides immunity in certain cases. Thus	(a) Sangam poems are devoid of any reference
statement 1 is correct.	to material culture.
When an animal is declared as a protected animal under Wildlife (Protection) Act (WPA), 1972 then it will	(b) The social classification of Varna was known to Sangam poets.
enjoy the same protection either if it is present in a	(c) Sangam poems have no reference to warrior ethic.
protected area or outside of a protected area. Hence,	(d) Sangam literature refers to magical forces as
statement 2 is correct.	irrational.
Only if the wild animal becomes a danger to human life	Ans. (b) : The Tamil society during the Sangam period
or is diseased or disabled beyond recovery it can be	was broadly divided into several groups. In the beginning of the Sangam Age, The Tamil society was
allowed to be captured or killed by the competent	beginning of the Sangam Age, The Tamil society was
authority, the Chief Wildlife Warden of the State. This	not organized on the basis of the Vedic caste system,
provision is applicable to wild animals listed in	namely Brahmanas, Kshatriyas, Sudras. However, the earliest of the Sangam literature, Tolkappiyam refers to
Schedule I of the Wildlife (Protection) Act, 1972,	the four divisions, which were prevalent in the Sangam
which includes leopards. Mere apprehension or fear	society namely, Anthanar, Arasar, Vaislyar and
that a wild animal could endanger human life is not a	Vellalar. It may be said that this classification roughly
ground for capture or killing. Hence statement 3 is	corresponds to the Vedic Social division.
incorrect. UPSC has considered option (b) as correct.	94. "Yogavasistha" was translated into Persian by
90. Certain species of which one of the following	Nizamuddin Panipati during the reign of :
organisms are well known as cultivators of fungi?	(a) Akbar (b) Humayun (c) Shahjahan (d) Aurangzeb
(a) Ant (b) Cockroach (c) Crab (d) Spider	Ans. (a) : YogaVasistha was translated multiple times
Ans. (a) : Species of Ant is well known as the	into Persian language throughout the Mughal Dynasty,
cultivator of the fungi. Few other insects such as	as commanded by Åkbar, Jahangir, and Darah Shikuh. Nizam al-Din Panipati completed one of these
termites, beetles, and marsh periwinkles are also able to	translations, known as the Jug-Basisht, in the late
cultivate fungi.	sixteenth century AD.
Hence, option (a) is correct.	95. The world's second tallest statue in sitting pose of
91. Consider the following pairs:	Ramanuja was inaugurated by the Prime
Site of Ashoka's Location in the	Minister of India at Hyderabad recently. Which
major rock edicts State of	one of the following statements correctly represents
1. Dhauli — Odisha	the teachings of Ramanuja?(a) The best means of salvation was devotion.
2. Erragudi — Andhra Pradesh	(b) Vedas are eternal, self-existent and wholly
3. Jaugada — Madhya Pradesh	authoritative.
4. Kalsi — Karnataka	(c) Logical arguments were essential means for
How many pairs given above are correctly matched?	the highest bliss.
(a) Only one pair (b) Only two pairs	(d) Salvation was to be obtained through
(c) Only three pairs (d) All four pairs	meditation

 [Abars. He firmly believed that intense devotion to the vishue best means to attain solvation. He propounded the doctrine of Vishishtadvaita. [a given substance. Nanoparticles are less than 10 manometers thick. To give some perspective, nanometer is 1000 times smaller than the thickness or one strand of hair. [a given substance. Nanoparticles are to subserve, monoparticles are tracked and trainium doxid. These ingredients are broken down into ultrafil minuscule droplets of sea syray. However, monoparticles are zinc oxide and trainium doxid. These ingredients are broken down into ultrafil minuscule droplets of sea syray. However, monoparticles are zinc oxide and trainium doxid. These ingredients are broken down into ultrafil minuscule droplets of sea syray. However, monoparticles are into ultrafil manoparticles are into ultrafil manoparticles are zinc oxide and trainium doxid. These ingredients are be deposited throughout the funging sommath Temple are correct. [a correct.] [b for the ring Sommath Temple was given by Hich of the following statements are correct and statements: [b fortus in fortus and a monoparticles are as to at oto its and a monoparticles. The pring funstaliton of the present day. (a) 1, 2 and 3 only (c) 1 and 2 only (b) 2 and 3 only (c) 1 and 2 only (b) 2 and 3 only (c) 1 and 2 only (b) 2 and 3 only (c) 1 mand 2 and (c) 1, 2 and 3. [c) They are as immunosuppressants in the body. (d) They protect the body from environment an altergens. (a) The overall ability of the body to fight the discesse caused by pathogens. (c) They act as immunosuppressants in the body. (d) They and body? (d) They protect the body from the dissense caused by athogens. (e) They act as immunosuppressants in the body. (f) many statements is anoparticles of some community. Becells and Treesing and processed foods. The pringential subord is the ourcet anows: (b) dodd (c) (c) (c) (c) (c) (c) (c) (c)		
 Vishnu was the best means to attain salvation. Here propounded the doctrine of vishishudvata. The outdoor 216-ft Statue of Equality is the world's score attain a full the doctrine of vishishudvata. The outdoor 216-ft Statue of Equality is the world's score attain of thair. Second tables tatue featuring a sitting posture. It is is corrects can be naturally created, for example minuscule droplets of sea spray. However, mowing in 2017 in Sri Perumbudur, Tamil Nadu, Sri Ramanujacharya liberated millions are sovietion minute and particulate matter can be deposited not work work work of the following statements are correct. For Prine Minister recently inaugurated the new regarding Sommath Temple at Veravat Which of the following statements are correct wy Al-Biruni A description of Sommath Temple at Veravat do ft in the lange of the statement signal statement is shrines. Para Pratishtha of Sommath Temple was given by President S. Radhartishnan. Steet the correct answer using the code given bedow: (a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only (c) 1 and 3 only (d) 1, 2 and 3 only (d) The yretet the body's pain and inflammation (a). Which one of the following statements is correct. Which one of the following statements is a latereants in the statement is correct. Which one of the following statements is correct. Mich and be yresident S. (d) : The verall ability of the body from the disease caused foods. Which of the statements is called immunity response. Leeds are responsible for cells mother stress on stress and and the pain indicated immunity response.		Ans. (d) : Nanoparticles are incredibly tiny particles of
 propounded the doctrine of Vishisthadvaita. propounded the doctrine of Faquality is the world's second tallest statue featuring a sitting posture. It is no estrand of hair. Nanoparticles can be naturally created, for example the minuscule droplets of sea spray. However, monanoparticles can be naturally created, for example tallurant, a combinating visit, each sea spray. However, monanoparticles can be deposited and trainium doxid Trace, caste, or creed. Nanomath Temple at Veravia, the intervention of the following statements are correct regarding sommath Temple at Veravia, the intervention of the following statements are correct regarding sommath Temple at Veravia, the intervent sommath Temple at Veravia, the intervention of the following statements are correct regarding sommath Temple at Veravia, the intervent sommath Temple (installation of the present doop the present doop the present doop the total sommath Temple (installation of the present doop the total sommath Temple (installation of the present doop the sommath Temple (installation		
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 second tallest statuc featuring a 'sitting posture, It is normanoparticles can be naturally created, for example from source of panchaloha, a combination of five materials comprising gold, silver, copper, brass, and zince the lab. For sourcere, and innuscule droplets of sea service oxice and itanium dioxid. These ingredients are broken down into ultraring indicates being added to sunscreen. So, statement is load or correct. So The Prime Minister recently inaugurated the new Circuit House near Somnath Temple at Verava, Which of the following statements are correct 'regarding Somnath Temple at Verava, the sectificition of Somnath Temple at Verava, the sectificition of Somnath Temple at Verava, done by Prevident S. Radhakrishnan. An description of Somnath Temple was given 'shore's correct and sitement 2 is correct. Nano particles of some of the Joyliriling shatements is correct. Ans. (a) : Statement 3 is incorrect. Pran Pratishtha of Somnath Temple (installation of the present day only (c) 1 and 2 only (d) 1, 2 and 3 only (c) 1 and 2 (d) 2 and 3 only (d) 1, 2 and 3 only (c) 1 and 2 (d) 2 and 3 only (c) 1 and 2 (d) 2 and 3 only (c) 1 and 2 (d) 2 and 3 only (c) 1 and 2 (d) 2 and 3 only (c) 1 and 2 (d) 2 and 3 only (c) 1 and 2 (d) 2 and 3 only (c) 1 and 2 (d) (d) from environment a latergens. Which one of the following statements bereat the body from environment an allergens. Max, (a) : Etherent a sin correct. The present day indicates and the statement 2 is correct. They act as immunosuppressants in the body. They protect the body's pain and is a novel system designed to provid materias in processed food. Max, (a) : The overeall ability of the body from environment a courset of mathema		
 composed of 'panchaloha', a combination of fiver, Born in 1017 in Sri Perumbudur, Tamil Nadu, Stanamuichanaya liberated millions from social, cultural, gender, educational and convention that every human is equal regardless of nationality, gender, educational and convention that every human is equal regardless of nationality, gender, educational and convention that every human is equal regardless of nationality, gender, educational and convention that every human is equal regardless of nationality, gender, educational and convention that every human is equal regardless of nationality, gender, educational and convention that every human is equal regardless of nationality, gender, educational and convention that every human is equal regardless of nationality, gender, educational factor of the prince that the set events of the human registratory tract, and an important fraction of a final education of the present day factoreal convert. Hence by Al-Birnin 3. Pran Pratishtha of Somnath Temple was given by Pr. Rajendra Prasad and not by C. I and 2 only (b) 2 and 3 only (c) 1 and 2 only (b) 2 and 3 only (c) 1 and 2 only (
 Inetial comprising gold, silver, copper, brass, and zinc. Inetial comprising gold, silver, copper, brass, and zinc. Ramanujacharya liberated millions from social, cultural, gender, educational and economic discrimination with the foundational conviction that any anticles before being added to sunscreen. So, statement sic qual regaratiles of nationality, gender, ''''''''''''''''''''''''''''''''''''	composed of 'panchaloha', a combination of five	
 Idom in 1017 in Sit Perumbudur, Tamil Nadu, Sri, Ramanujacharya liberated millions from social, cultural, gender, educational and economic distrimution with the foundational conviction that every human is equal regardless of nationality, gender, race, caste, or creed. 96. The Prime Minister recently inaugurated the new Circuit House near Somanth Temple at Veraval Which of the following statements are correct and statement2 is correct. Inheled particulate matter can be deposited throughout the human house sponsable throughout the human house and important fractional system espiratory tract, and an important fractional system is called in the system exponsible for the persent day temple was done by Dr. Rajendra Prasad and not by S. Radharishnan. Statement 1 and 2 correct. Here is an internating decisional and tracted in munity esponse. Academ system is captional (a) 1, 2 and 3 colly (a) 1, 2 and 4 colly (b) 2 and 4 colly (c) 1 and 2 (c) 2 and 3 colly (c) 1 and 2 (c) 2 and 3 colly (c) 1 and 2 (c) 2 and 3 colly (c) 1 and 2 (c) 2 and 3 colly (c) 1 and 2 (c) 2 and 3 colly (c) 1 and 2 (c) 2 and 3 colly (c) 1 and 2 (c) 2 and 3 colly (c) 1 and 2 (c) 2 and 3 colly (c) 1 and 2 (c) 2 and 3 colly (c) 1 and 2 (c) 2 and 3 colly (c) 1 and 2 (c) 2 and 3 colly (c) 1 and 2 (c) 2 and 3 colly (c) 1 and 2 (c) 2 and 3 colly (c) 1 an	metals comprising gold, silver, copper, brass, and zinc.	
 Ramanujacharya liberated millions from social, cultural, gender, educational and economic discrimination with the foundational conviction that every human is equal regardless of national conviction that every human is equal regardless of national conviction that every human is equal regardless of national conviction that every human is equal regardless of national conviction that every human heads. 96. The Prime Minister recently inaugurated the new Circuit House near Somnath Temple at Veravat. Which of the following statements are correct regarding Somnath Temple at Veravat. 97. Which ore of the orgenet aday temple) was done by President S. Radhachishan. 92. A description of Sommath Temple was given by Al-Birumi 93. Pran Pratishiha of Sommath Temple was given by Rosident S. Radhachishan. 94. Statement 3 is incorrect: Pran Pratishiha of Sommath Temple (installation of the present day temple) was done by President S. Radhachishan. 97. Which one of the following statementa was end on the correct answer is option (a). 97. Which one of the following statementation and has limited utility for low using short, standardized gene regions as interm in and 2 are correct. Hence the human body? (d) They protect the body from environmental (a) They protect the body from the disease caused by pathogens. 7. Ast. (d): The overall ability of the body to fight the disease causing organisms (pathogens), conferred by the immune responses are carreid out with the pathogens into our blood. The T-cells and T-cells and T-cells and the pathogens. 7. Other than those made by humans, anonparticles of the dise with or the dawnow into contain supplera and there or there antibodies the role of seells produce antibodies the role of seells and the environmenta: the pathogens into our blood. The T-cells intermets: the environmenta in the patholes of some metallic oxides arease of a dired and onaly with		
 discrimination with the foundational conviction that revery human is equal regardless of nationality, gender, aste, or creed. 96. The Prime Minister recently inaugurated the new formed the international temple at veraval which of the following statements are correct. Sommath Temple is one of the Jyotriling, shrines. A description of Somnath Temple was given by Al-Birumi Pran Pratishtha of Somnath Temple was given done by President S. Radhakrishnan. Select the correct answer sing the code given below; (a) 1 and 2 only (b) 2 and 3 only (c) 1 and 2 only (d) 1,2 and 3 77. Which one of the following statements beest describes the role of the following statements given above is/are correct the body from environmental allergens. 97. Which one of the following statements beest describes the role of the following statement allergens. 97. Which one of the following statements beest describes the role of b cells and T cells in the human body? (d) They protect the body from environmental allergens. (e) They protect the body from the disease caused by attrody. For eest and subproverse of recells and the bey of the inductive dimmunity. The primary and secondary immune responses persones is called immunity. The primary and secondary immune responses persones and the bey of the poly of cells and Treelis are responsible for acutived immunity. Beelis are responsible for acuted immunity. Beelis are responsible		These ingredients are broken down into ultrafine
 levery human is equal regardless of nationality, gender, and construction of the present day. The analysis of the lung methods and the lung methods and the lung methods and the lung methods. The properties of the lung methods and the lung methods and the lung methods and the lung methods and the lung methods. The present day from the lungs to the development of the lung to the l		
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 97. Which one of the following statements best describes the role of B cells and T cells in the human body? (a) They protect the body from environmental allergens. (b) They alleviate the body's pain and inflammation (c) They act as immunosuppressants in the body. (d) They protect the body from the diseases causing organisms (pathogens), conferred by the immune responses are carried out with the help of two special types of lymphocytes present in our blood, i.e., B-lymphocytes (B-cells) and T-tymphocytes (T-cells). Thus, both B-cells and T-cells are responsible for acquired immunity. B-cells are responsible for antibody-mediated immunity response. Bcells produce antibodies to fight with the pathogens into our blood. The T-cells themselves do not exist in nature. 98. Consider the following statements: Nanoparticles of some metallic oxides are used in the manufacture of some cosmetics. Nanoparticles of some commercial produce the deposition. 98. Consider the following statements: Nanoparticles of some commercial produce the deposition. Sunanoparticles of some commercial produce sub fin the manufacture of some cosmetics. Nanoparticles of some commercial produce sub in the environment are unsafe for humans. 90. Consider the environment are unsafe for humans. Which of the statements given above is/are correct? 		
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 Ans. (b) : Acid rain refers to the ways in which acid from the atmosphere is deposited on the earth's surface Oxides of nitrogen and sulphur which are acidic in nature can be blown by wind along with solid particle in the atmosphere and finally settle down either on the ground as dry deposition or in water, fog and snow a wet deposition. 98. Consider the following statements: Other than those made by humans, nanoparticles do not exist in nature. Nanoparticles of some metallic oxides are used in the manufacture of some cosmetics. Nanoparticles of some commercial products which enter the environment are unsafe for humans. Which of the statements given above is/are correct? 	are responsible for acquired immunity. B-cells are	
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 3. Nanoparticles of some commercial products which enter the environment are unsafe for humans. Which of the statements given above is/are correct? 		
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 which enter the environment are unsafe for humans. Which of the statements given above is/are correct? are major contributors to acid rain, because polluted a usually contains particulate matter that catalyze th oxidation. Therefore, option (b) is the correct answer. 		
Which of the statements given above is/are correct?		are major contributors to acid rain, because polluted air
which of the statements given above is/are correct? oxidation Therefore ontion (b) is the correct answer		usually contains particulate matter that catalyze the
(a) Folly (b) 5 only (c) Fally 2 (d) 2 and 5	$(a) \mid on \mid V (b) \mid c \mid on \mid d \mid f \mid d \mid f \mid on \mid d \mid f \mid d \mid d$	oxidation. Therefore, option (b) is the correct answer.



- 9. Who among the following rulers of medieval Gujarat surrendered Diu to Portuguese?
 - (a) Ahmad Shah (b) Mahmud Begarha
 - (c) Bahadur Shah (d) Muhammad Shah

Ans. (c) : Bahadur Shah of Gujarat surrendered Diu to Portuguese in 1534. Bahadur Shah during his conflict with the Mughal emperor Humayun, secured help from the Portuguese, and he signed the treaty of Bassein with the Portuguese by this, he ceded Diu to the Portuguese.

- 10. By which one of the following Acts was the Governor General of Bengal designated as the Governor General of India?
 - (a) The Regulating Act
 - (b) The Pitt's India Act
 - (c) The Charter Act of 1793
 - (d) The Charter Act of 1833

Ans. (d) : The Charter Act of 1833 renamed the position of the Governor-general of Bengal as the Governor-General of India. Lord William Bentinck became the first governor-general of India.

11. In essence, what does Due Process of Law' mean?

- (a) The principle of natural justice
- (b) The procedure established by law
- (c) Fair application of law
- (d) Equality before law

Ans. (c) : "Due process of law" refers to just, rational and fair treatment under the regular judicial proceedings, thus it means the fair application of law. It states that a person cannot be denied their life, liberty or property without adhering to required legal procedures and receiving the appropriate protections. The due process of law limits the power of the law and protects an individual's rights

12. Consider the following statements :

Statement-I: In India, prisons are managed by State Governments with their own rules and regulations for the day-to-day administration of prisons.

Statement II : In India, prisons are governed by the Prisons Act, 1894 which expressly kept the subject of prisons in the control of Provincial Governments.

Which one of the following is correct in respect of the above statements :

- (a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I.
- (b) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I.
- (c) Statement-I is correct but Statement-II is incorrect.
- (d) Statement-I is incorrect but Statement-II is correct.

Ans. (a) : The Prison Act 1894 is one of the oldest part of legislation in India under Person Act, 1894 prisons are managed by State Governments with their own rules and regulation for the day-to-day administration of prisons. The Section-IV of prisons act 1894 clearly mentions. Prison mean any jail or place used permanently or temporarily under the general or special orders of a state governments for detention of prisoners. Hence both (A) and (R) is correct and (R) is the correct explanation of (A)

13. Which one of the following statements best reflects the Chief purpose of the 'Constitution' of a country?

- (a) In determines the objective for the making of necessary laws.
- (b) It enables the creation of political offices and a government.
- (c) It defines and limits the powers of government.
- (d) It secures social justice, social equality and social security.

Ans. (c) : Function of a constitution is to set some limits on the functions of the government and what a government can impose on it's Citizens in terms of rights. These limits are fundamental in the sense that the government may never trespass them.

14. India, which one of the following In Amendments Constitutional was widely believed to be enacted to overcome the judicial interpretations of the Fundamental Rights? (a) 1st Amendment (b) 42nd Amendment (c) 44th Amendment (d) 86th Amendment

Ans. (a) : The first Amendment Act, 1951, added the Fourth clause to Article 15 that empowered the government to make any law for the upliftment of socially and educationally backward classes of citizens or for the scheduled castes and scheduled Tribes.

The need to insert this clause was felt after the decision of the Supreme Court in the Champakam Dorairajan case 1951. The Court gave literal interpretation to the constitutional provisions and held that reserving seats in public institutions for backward classes violates Article 15(1) and Article 29(2). Therefore, inorder to nullify the effect of similar judicial pronouncements, Article 15 was amended.

- 15. Consider the following organizations/bodies in India :
 - 1. The National Commission for Backward Classes
 - 2. The National Human Rights Commission
 - 3. The National Law Commission
 - 4. The National Consumer Disputes Redressal Commission

How many of the above are constitutional bodies? (a) Only one (b) Only two (c) All three (d) All four

Ans. (a) : In the given options, the National Commission for backward classes (NCBC) is a constitutional body under Article 338(B) While the National Humans rights commission and the National Consumer Disputes Redressal Commission are statutory body under protection of Human Rights Act, 1993, and Consumer Protection Act, 1986 respectively. The National Law Commission is neither Constitutional nor statutory body. Hence only one pair is correctly matched.

- 16. Consider the following statements :
 - 1. If the election of the President of India is declared void by the Supreme Court of India, all acts done by him/her in the performance of duties of his/her office of President before the date of decision become invalid.
 - 2. Election for the post of the President of India can be postponed on the ground that some Legislative Assemblies have been dissolved and elections are yet to take place.
 - 3. When a Bill is presented to the President of India, the Constitution prescribes time limits within which he/she has to declare his/her assent.

How many of the above statements are correct? (a) Only one (b) Only two (c) All three (d) None

A (1) . If the sheeting of a management of the form	lef gram sabha and one representative of the state forests
Ans. (d) : If the election of a person as a president of India is declared void by the Supreme Court acts done	of gram sabha and one representative of the state forests or wildlife Department under whose jurisdiction the
by him before the date of such declaration of Supreme	community reserve is located. Hence Statement-1 is
Court are not invalidated and continue to remain in	As per Section 36(c)(2) of the wildlife protection
force. Hence statement-I is not correct. The Supreme Court in 1974 held that the dissolution of	(Amendment) Act, 2002, restrictions and regulation
state legislature will not be a ground for preventing the	applicable to the wild life sanctuaries are applicable to
holding of the election on the expiry of the term of the	community reserve too. Hence statements 2, 3 and 4 are correct.
president. Hence statement-2 is also incorrect. The Constitution of India does not prescribe any time	19. With reference to 'Schedule Areas' in India,
limit within which the president has to take decision	consider the following statements :
with respect to bill presented to him/her for assent.	1. Within a State, the notification of an area
Hence statement-3 is also incorrect. 17. With reference to Finance Bill and Money Bill	as Scheduled Area takes place through an Order of the President.
17. With reference to Finance Bill and Money Bill in the Indian Parliament, consider the	2. The largest administrative unit forming the
following statements :	Scheduled Area is the District and the
1. When the Lok Sabha transmits Finance Bill to the Baiya Sabha it can amond or	lowest is the cluster of villages in the Block. 3. The Chief Ministers of the concerned
Bill to the Rajya Sabha, it can amend or reject the Bill.	States are required to submit annual
2. When the Lok Sabha transmits Money Bill	reports to the Union Home Ministry on the administration of Scheduled Areas in the
to the Rajya Sabha, it cannot amend or reject the Bill, it can only make	States.
reject the Bill, it can only make recommendations.	How many of the above statements are correct?
3. In the case of disagreement between the	(a) Only one (b) Only two (c) All three (d) None
Lok Sabha and the Rajya Sabha, there is no joint sitting for Money Bill, but a joint	Ans. (b) : As per Article-244 'scheduled areas' in India shall be declared by the President. The largest
sitting becomes necessary for Finance Bill.	administrative unit forming the scheduled area is the
How many of the above statements are correct?	District and the lowest is the cluster of villages in the
(a) Only one (b) Only two	Block. The Governor of the concerned states are required to submit annual reports to the President on the
(c) All three (d) None Ans. (a) : Finance bill is an example of money bill. It is	administration of scheduled areas in the states. Hence
an example of money bill. It is passed during the budget	statements 1, 2 are correct while statement-3 is not correct.
for enacting tax proposals. The Rajya Sabha cannot	20. Consider the following statements :
amend or reject the finance bill but only can recommend changes which the Lok Sabha can accept or	Statement-I : The Supreme Court of India has
not. Hence statement-1 is incorrect when money bill is	held in some judgements that the reservation
passed by the Lok-Sabha. It is transmitted to the Rajya	policies made under Article 16(4) of the Constitution of India would be limited by Article
Sabha for it's consideration. The Rajya Sabha has restricted powers with regard to money bill. It cannot	335 for maintenance of efficiency of administration.
reject or amend a money bill. It can only make	Statement II : Article 335 of the Constitution of India defines the term 'efficiency of administration'.
recommendations. Hence statement-2 is correct. Because of finance bill is a money bill and there is no	Which one of the following is correct in respect
provision for holding joint sitting for a money bill.	of the above statements :
Hence statement-3 is also incorrect.	(a) Both Statement-I and Statement-II are correct
[Finance bill and Financial bill both are different.]	and Statement-II is the correct explanation for Statement-I.
18. Consider the following statements : Once the Central Government notifies an area	(b) Both Statement-I and Statement-II are correct
as a 'Community Reserve'	and Statement-II is not the correct explanation for Statement-I.
1. the Chief Wildlife Warden of the State	(c) Statement-I is correct but Statement-II is
becomes the governing authority of such forest	incorrect.
2. hunting is not allowed in such area	(d) Statement-I is incorrect but Statement-II is correct.
3. people of such area are allowed to collect	Ans. (c) : Supreme Court of India has held in some
non-timber forest produce	judgements that the reservation policies made under
4. people of such area are allowed traditional agricultural practices	Article 16(4) of the Constitution of India would be limited by Article 335 for maintenance of efficiency of
How many of the above statements are correct?	administration while the Article 335 of the Constitution
(a) Only one (b) Only two (c) All three (d) All four	of India does not defines the term efficiency of
(c) All three (d) All four Ans. (c) : As per the Section 36-D of Wildlife	administration. Hence statement-1 is correct whole statement-II is not correct.
(Protection) Amendment Act, 2002. The State	21. Consider the following statements :
government shall Constitute a community reserve	Statement-I : India, despite having uranium
management committee which shall be the authority responsible for conserving, maintaining and managing	deposits, depends on coal for most of its electricity production.
the community reserve. The committee shall consist of	Statement II : Uranium, enriched to the extent of
the representatives nominated by the village Panchayat or where such panchayat does not exist by the members	at least 60%, is required for the production of
	electricity.

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Which one of the following is correct in respect	Ans. (b) : Lion-tailed Macaque is an old world
of the above statements :	monkey endemic to the Western Ghats of South India, it
(a) Both Statement-I and Statement-II are correct	is a diurnal creature. Hence it is not a nocturnal animal
and Statement-II is the correct explanation for	animal.
Statement-I. (b) Both Statement-I and Statement-II are correct	Malabar Civet is a nocturnal animal, endemic to Western Ghats and listed as critically endangered in
and Statement-II is not the correct	IUCN Red data book.
explanation for Statement-I.	Sambar Deer is a large deer native to the Indian
(c) Statement-I is correct but Statement-II is	subcontinent and southeast Asia. These species are quite ensure elusive and are mot active at dusk and night
incorrect.	hence it is consider as nocturnal animal.
(d) Statement-I is incorrect but Statement-II is	25. Which of the following organisms perform
correct.	waggle dance for others of their kin to indicate
Ans. (c) : India, despite having Uranium deposits, depends on coal for most of it's electricity production.	the direction and the distance to a source of
Natural Uranium contains only 0.7% of the fossile U-	(a) Butterflies (b) Dragonflies
235 and 99.3%, non fossile U-238. This require	(a) Butterflies (b) Dragonflies (c) Honeybees (d) Wasps
enrichment to the level of at least 3% in case of	Ans. (c) : Waggle dance is a form of communication by
electricity production and at least 80%. In case of	which the bees tell their nest mates where to go to get
bombs. Thus, the second statement is incorrect while statement-1 is correct.	the best source of food to bring back to the hive.
22. Consider the following statements :	26. Consider the following statements :
Statement-I : Marsupials are not naturally found	1. Some mushrooms have medicinal properties.
in India.	2. Some mushrooms have psychoactive properties.
Statement II : Marsupials can thrive only in	3. Some mushrooms have insecticidal properties.
montane grasslands with no predators.	4. Some mushrooms have bioluminescent
Which one of the following is correct in respect	properties.
of the above statements : (a) Both Statement Land Statement II are correct	How many of the above statements are correct?
(a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for	(a) Only one (b) Only two (c) All three (d) All four
Statement-I.	Ans. (d) : Medicinal mushrooms such as shiltake, reishi have been found to have antitumor and
(b) Both Statement-I and Statement-II are correct	have been found to have antitumor and immunustimulant properties.
and Statement-II is not the correct	Psychoactive properties mean a drug of other substance
explanation for Statement-I.	that affects how the brain works and causes changes in
(c) Statement-I is correct but Statement-II is incorrect.	mood, awareness, thoughts, feelings or behavior.
(d) Statement-I is incorrect but Statement-II is	Psilocybin is a hallucinogenic chemical in certain mushrooms known as magic mushrooms.
correct.	Recently on increasing number of mushrooms have
Ans. (c) : Marsupials are not naturally found in India	been found to contain insecticidal compounds.
marsupials are any members of the mammalian	Panellus stiptices is one of the brightest glowing bioluminescent mushrooms on earth.
infraclass Marsupialia. All extant marsupials are	Thus all the statements are correct.
endemic to Australiasia, Wallacea and the Americas. Most Australian Marsupials, lives in dry scrup or desert	27. Consider the following statements regarding
habitat. Hence statement-1 is correct while statement-2	the Indian squirrels :
is incorrect.	1. They build nests by making burrows in the
23. 'Invasive Species Specialist Group' (that	ground.
develops Global Invasive Species Database)	2. They store their food materials like nuts and seeds in the ground.
belongs to which one of the following	3. They are omnivorous.
organizations? (a) The International Union for Conservation of	How many of the above statements are correct?
Nature	(a) Only one (b) Only two (c) All three (d) None
(b) The United Nations Environment Programme	Ans. (c) : Indian squirrels construct their nests in tree
(c) The United Nations World Commission for	branches and hollow trunks.
Environment and Development	Nuts are their main food source throughout year. They store their food by burying them underground so that
(d) The World Wide Fund for Nature	they can retrieve them in winter Squirrels are omnivores
Ans. (a) : The Global Invasive species Database was	as alongwith fruits and nuts they also eat on eggs, Small
developed and is managed by the "Invasive Species Specialist Group" of the species Survival Commission	insects, caterpillars, small animals and even young snakes. Thus all the statements are correct.
Specialist Group" of the species Survival Commission of the International Union for conservation of Nature.	28. Consider the following statements :
24. Consider the following fauna :	1. Some microorganisms can grove in
1. Lion-tailed Macaque	environments with temperature above the
2. Malabar Civet	boiling point of water.
3. Sambar Deer	2. Some microorganisms can grow in
How many of the above are generally necturnal	environments with temperature below the freezing point of water.
or most active after sunset?	3. Some microorganisms can grow in highly
(a) Only one (b) Only two (c) All three (d) None	acidic environment with a pH below 3.
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How many of the above statements are correct? 2 Mundra Port privately Largest (a) Only one (b) Only two (c) All three (d) None owned port in India Ans. (c) : A thermophile is an organism, a type of 3. Visakhapatnam Largest container extremophile, that thrives at relatively high Port port in India temperatures between 41 and 122°C. One thermophile, How many of the above pairs are correctly Pyrdobus Fumarii, has been found at temperatures at matched? 113°C which is hotter than boiling point of water. (b) Only two pairs (a) Only one pair Psychrophiles are organisms capable of growth and (c) All three pairs (d) None of the pairs reproduction in cold temperatures and are often xerophilic and halophilic as well. The reported Ans. (b) : Kamrajar Port is located on the coromandel minimum growth of microorganism varying from 10° C to -10° C. But for practical cases lower limit of growth coast about 24 km. north of Chennai Port. It is the First Port in India which is public company. The Kamrajar for bacteria, yeast or moulds can be taken as -7° C. Port is the only corporatized major port is registered as Acidophiles are microorganisms that show optimal a company. Mundra port is the largest Privately owned growth in highly acidic environments. Extreme port in India. It is owned by Adani group. Jawaharlal Citophiles dwell in environments with a pH value less Nehru Port Trust Nhava Sheva is the largest container than 3. Thus all the statements are correct. port in India. Thus pair 1 & Part 2 are correctly matched. 29. Which one of the following makes a tool with a **Consider the following trees :** 33. stick to scrape insects from a hole in a tree or a 1. Jackfruit (Artocarpus heterophyllus) log of wood? 2. Mahua (Madhuca indica) (a) Fishing cat (b) Orangutan 3. Teak (Tectona grandia) (c) Otter (d) Sloth bear How many of the above are deciduous trees? Ans. (b) : In a recent study of five captive Sumatran (a) Only one (b) Only two (c) All three (d) None Orangutans it was found that they frequently stripped leaves and twigs from a branch provided and then **Ans.** (b) : Jackfruit is a tropical evergreen tree while inserted the tool into a hole to obtain foodstuffs. When Mahua and Teak are tropical deciduous free. Thus (b) is they were unable to insert a tool into a hole, the usually correct. modified the tool and changed their tool using 34. **Consider the following statements :** technique, such as changing how they grasped the tool. 1. India has more arable area than China. **Consider the following :** 30. The proportion of irrigated area is more in 2. 1. Aerosols 2. Foam agents India as compared to China. 3. Fire retardants 4. Lubricants The average productivity per hectare in 3. In the making of how many of the above are Indian agriculture is higher than that in hydrofluorocarbons used? China. (a) Only one (b) Only two (c) All three (d) All four How many of the above statements are correct? Ans. (d) : HFC's are entirely man-made. They are (a) Only one (b) Only two (c) All three (d) None primarily produced for use in refrigeration, air-Ans. (b) : India's arable land area is 179.8 million conditioning, insulating foams and aerosol propellants, hectares while China's arable land area is 165.2 million with minor uses as solvents and for fire protection. hectares Lubricants also contain aerosols. India's proportion of irrigated area is 48% while China's **Consider the following statements :** 31. proportion of irrigated area is 41%. Thus proportion of 1. Jhelum River passes through Wular Lake. irrigated area in India is more as compared to China. 2. Krishna River directly feeds Kolleru Lake. Agricultural productivity in China is almost 50 to 100% 3. Meandering of Gandak River formed more than that of India. Thus Statements (1 & 2) are Kanwar Lake. correct. How many of the statements given above are Which one of the following is the best example 35. correct? of repeated falls in sea level, giving rise to (a) Only one (b) Only two (c) All three (d) None present-day extensive marshland? Ans. (b) : The Jhelum river rises from a spring at (a) Bhitarkanika Mangroves Verinag situated at the foot of Pir Panjal in the southeastern part of valley of Kashmir. It flows through (b) Marakkanam Salt Pans Srinagar and the Wular lake before entering Pakistan (c) Naupada Swamp through a deep narrow gorge. (d) Rann of Kutch The Kolleru lake is fed directly by seasonal Budameru Ans. (d) : The Rann of Kutch was once shallow part of and Tammilmeru Streams. It is connected to the Krishna and Gotavari systems by over 68 inflowing Arabian Sea, Until a geological shift closed off the connection with sea. The region became a seasonal drains and channels but not directly Fed. marshy salt desert over the years. During Monsoons the Kanwar lake in Bihar is residual oxbow take in Bihar region fills up with water and forms a wetland. In the formed due in meandering of Gandak river. summer the water dries to create a bed of white salty Thus statements 1 & 3 are correct and statement is land. The Great Rann is a bowl shaped depression, its incorrect. eastern edge merges into the drainage area of the Luni 32. **Consider the following pairs :** river. Port Well known as 36. Ilmenite and rutile, abundantly available in Kamarajar Port 1. First major port in certain coastal tracts of India, are rich sources India registered as a of which one of the following? company (a) Aluminium (b) Copper (c) Iron (d) Titanium

	And (D) The Dest West of the Constant of
Ans. (d) : Ilmenite and Rutile are both minerals that contain high concentration of titanium.	Ans. (d) : The East-West corridor is a part of National Highways Development Project which aims to connect
In India certain coastal trails are known for significant	Silchar in Assam to Porbandar in Gujarat.
ilnenite and rutile deposits. These are found in beach	The Trilateral Highway is a connectivity project that
deposits and are extracted through beach sand mining	aims to connect Moreh in Manipur, India with Maesot
operations.	in Thailand via Myanmar.
The extracted ilnenite and rutile are processed to obtain	The Bangladesh-China-India-Myanmar (BCIM) is a
titanium dioxide which is then further refined to	proposed economic corridor that aims to connect
produce metallic titanium.	Kunming in China with Kolkata in India via Myanmar
37. About three-fourths of world's cobalt, a metal	and Bangladesh.
required for, the manufacture of batteries for	Thus all the statements are incorrect.
electric motor vehicles, is produced by	41. Consider the following statements :
(a) Argentina	Statement-I : Interest income from the deposits in
(b) Botswana	Infrastructure Investment Trusts (InvITs)
(c) the Democratic Republic of the Congo	distributed to their investors is exempted from tax,
(d) Kazakhstan	but the dividend is taxable.
Ans. (c) : The Democratic Republic of Congo is the	Statement II : InvITs are recognized as
world's largest producer of cobalt accounting for about	borrowers under the Securitisation and
three-fourths of the global protection. The country	Reconstruction of Financial Assets and
reported output of 1,30,000 MT in 2022. Cobalt is	Enforcement of Security Interest Act, 2002'.
crucial for manufacture of some electronic products	Which one of the following is correct in respect of the above statements :
(Smartphones & Laptops) and batteries of Electric Vehicles.	
	(a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for
38. Which one of the following is a part of the Congo Basin?	Statement-I.
(a) Cameroon (b) Nigeria (c) South Sudan (d) Uganda	(b) Both Statement-I and Statement-II are correct
	and Statement-II is not the correct
Ans. (a) : The Congo Basin region in Central Africa includes multiple countries which are as follows :	explanation for Statement-I.
 Cameroon 	(c) Statement-I is correct but Statement-II is
 Central African Republic 	incorrect.
 Democratic Republic of Congo 	(d) Statement-I is incorrect but Statement-II is
 Republic of Congo 	correct.
 Equatorial Guinea 	Ans. (d) : InvITs are investment vehicle that pool Funds
 Gabon 	From investors to invest in infrastructure projects.
Thus 'Cameroon' is the correct answer.	Latest budget 2023-24 made the provision that all
39. Consider the following statements :	income distributed by InvITs, including interest income,
1. Amarkantak Hills are at the confluence of	dividend income and rental income will be taxable.
Vindhya and Sahyadri Ranges.	InvITs are classified as borrowers under the securitization and Reconstruction of Financial Assets and
2. Biligirirangan Hills constitute the	Enforcement of Securities Interest Act, 2002.
easternmost part of Satpura Range.	Thus statement (1) is incorrect and statement 2 is correct.
3. Seshachalam Hills constitute the	42. Consider the following statements :
southernmost part of Western Ghats.	Statement-I : In the post-pandemic recent past,
How many of the statements given above the	many Central Banks worldwide had carried out
correct?	interest rate hikes.
(a) Only one (b) Only two (c) All three (d) None	Statement II : Central Banks generally assume
Ans. (d): Amarkantak is at confluence of Vindhya and	that they have the ability to counteract the rising
Satpura Range.	consumer prices via monetary policy means.
Annamalai hills and Cardmom hills are the	Which one of the following is correct in respect
southernmost point of Western Ghats.	of the above statements :
Sheshachalam Hills are part of eastern Ghats.	(a) Both Statement-I and Statement-II are correct
Thus none the statements are correct.	and Statement-II is the correct explanation for
40. With reference to India's projects on	Statement-I.
connectivity, consider the following statements:	(b) Both Statement-I and Statement-II are correct and Statement-II is not the correct
1. East-West Corridor under Golden Quadrilateral Project connects Dibrugarh	and Statement-II is not the correct explanation for Statement-I.
and Surat.	(c) Statement-I is correct but Statement-II is
2. Trilateral Highway connects Moreh in	incorrect.
Manipur and Chiang Mai in Thailand via	(d) Statement-I is incorrect but Statement-II is
Myanmar.	correct.
3. Bangladesh-China-India-Myanmar	Ans. (a) : In the post-pandemic recent past, many
Economic Corridor connects Varanasi in	central banks worldwide have indeed carried out
Uttar Pradesh with Kunming in China.	interest rate hikes central banks use interest rate
How many of the above statements are correct?	adjustments as one of their monetary policy tools to
(a) Only one (b) Only two (c) All three (d) None	manage the economy.
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Central banks believe that by adjusting interest rates, they can influence borrowing costs, spending patterns, and overall economic activity. When inflation rises, central banks may raise interest rates to make borrowing more expensive thereby discouraging excessive spending and slowing down economic growth. Thus Assertion and Paeson both are true and rasson

Thus Assertion and Reason both are true and reason explains the assertion.

43. Consider the following statements :

Statement-I: Carbon markets are likely to be one of the most widespread tools in the fight against climate change.

Statement II : Carbon markets transfer resources from the private sector to the State.

Which one of the following is correct in respect of the above statements :

- (a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I.
- (b) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I.
- (c) Statement-I is correct but Statement-II is incorrect.
- (d) Statement-I is incorrect but Statement-II is correct.

Ans. (a) Carbon markets, are likely to be one of the most widespread tools in the fight against Climate Change. Carbon markets, also known as emission trading systems or Cap and trade systems are mechanisms that put a price on carbon emissions. Hence statemet-1 is correct. Carbon markets are mechanism designed to reduce greenhouse gas emissions by putting a price on carbon. They create a market for buying and selling carbon credits which represent the right to emit a certain

credits which represent the right to emit a certain amount of greenhouse gases. In carbon markets Companies or entities that emit fewer greenhouse gases than their allotted limit can sell their excess credits to those who exceed their limit. Carbon markets involve financial transactions and can transfer resoursces from private sector to the States.

Hence Statement-II is also correct and explains Statement-I.

- 44. Which one of the following activities of the Reserve Bank of India is considered to be part of 'sterilization'?
 - (a) Conducting 'Open Market Operations'
 - (b) Oversight of settlement and payment systems
 - (c) Debt and cash management for the Central and State Governments
 (d) Pagulating the functions of Non banking
 - (d) Regulating the functions of Non-banking Financial Institutions

Ans. (a) : Sterlization refers to actions taken by a central bank to offset the impact of its foreign exchange operations on the domestic money supply.

The RBI carries out sterlisation operations such as open Market Operations to control the total amount of money supply in the economy. As part of OMO'S RBI can perform two actions-

- Buy G-secs to inject money during slowdown.
- Sell G-secs to suck out excess during inflation.
- 45. Consider the following markets :
 - 1. Government Bond Market
 - 2. Call Money Market
 - 3. Treasury Bill Market
 - 4. Stock Market

How many of the above are included in capital markets?

(a) Only one (b) Only two (c) All three (d) All four

Ans. (b) : Capital Markets are Financial Markets where long term securities such as stocks and bonds are traded. They provided platform for raising capital for business and governments.

Government bonds are longterm debt securities issued by governments to finance their activities. Call money market is a short term market where funds ar borrowed and lend for very short durations, usually overnight treasury bills are short term debt instruments issued by the governments to finance their short term cash flow requirements.

The stock market, is where shares or stocks of publicly listed companies are brought and sold. It is part of capital market. Thus statements 1 & 4 are correct while statements 2 & 3 are incorrect.

46. Which one of the following best describes the concept of 'Small Farmer Large Field?

- (a) Resettlement of a large number of people, uprooted from their countries due to war, by giving them a large cultivable land which they cultivate collectively and share the produce.
- (b) Many marginal farmers in an area organize themselves into groups and synchronize and harmonize selected agricultural operations
- (c) Many marginal farmers in an area together make a contract with a corporate body and surrender their land to the corporate body for a fixed term for which the corporate body makes a payment of agreed amount to the farmers
- (d) A company extends loans, technical knowledge and material inputs to a number of small farmers in an area so that they produce the agricultural commodity required by the company for its manufacturing process and commercial production.

Ans. (b) : The concept of "Small Farmer Large Field" refers to the idea where many marginal farmers in a particular area come together and organize themselves into groups. In this approach, instead of individually working on their small plots of land, these farmers pool their resources, knowledge and efforts to cultivate larger fields collectively. By doing so they can achieve economics of scale improve efficiency and enhance productivity.

Thus state option (b) is the correctly answer.

- **Consider the following statements :**
 - 1. The Government of India provides Minimum Support Price for niger (Guizotia abyssinica) seeds.
 - 2. Niger is cultivated as a Kharif crop.
 - 3. Some tribal people in India use niger seed oil for cooking.
 - How many of the above statements are correct? (a) Only one (b) Only two (c) All three (d) None

Ans. (c) : The Government of India provides Minimum Support Price for 22 crops. It also includes niger seeds. Niger, a minor oilseed crop, is primarily cultivated in rainfed areas as Kharif crop. The tribial communities incorporate Niger seed oil into their cooking practices and utilize the remaining press.

their cooking practices and utilize the remaining press cake remaining after oil extraction as livestock feed. Thus all the 3 statements are correct.

- 48. Consider the investments in the following assets :
 - 1. Brand recognition 2. Inventory
 - 3. Intellectual property 4. Mailing list of clients

47.

How many of the above are considered intangible investments?

(a) Only one (b) Only two (c) All three (d) All four Ans. (c) : Brand equity is classified as an intangible asset since its worth does not derive from a physical entity and is primarily influenced by how consumers perceive the brand. Inventory refers to the goods or products that a company holds for sale. It represents the tangible assets, as inventory consists of physical items that can be seen, touched and measured. Intellectual property (IP) included intangible assets. Such as patents, trademarks, copyrights, and trade secrets. The mailing list of client is among the intangible assets of company encompassing a compilation of past customers. Thus statements 1, 3 and 4 are correct. 49. **Consider the following :** 1. Demographic performance 2. Forest and ecology 3. **Governance reforms** 4. Stable government Tax and fiscal efforts 5. For the horizontal tax devolution, the Fifteenth Finance Commission used how many of the above as criteria other than population area and income distance? (a) Only one (b) Only two (c) Only three (d) All five Ans. (c) : For horizontal devolution the 15th Finance

Commission used the follo	wing Parameters—
Parameters	15th Finance Commission
Population (2011)	15%
Area	15%
Forests Ecology	10%
Income distance	45%
Tax & Fiscal Efforts	2.5%
Demographic performance	12.5%
Thus among the given optic	ons only 3 criteria were used.

50. Consider the following infrastructure sectors :
1. Affordable housing 2. Mass rapid transport
3. Health care 4. Renewable energy
On how many of the above does UNOPS

Sustainable Investments in Infrastructure and Innovation (S3i) initiative focus for its investments?

(a) Only one (b) Only two (c) All three (d) All four

Ans. (c) : The sustainable investments in infrastructure and innovation initiative was established by the United Nations Office for Project Services to fill the SPG Financing gap in developing countries. It seeks to channelise public and private Financing into large scale infrastructure projects in the following sectors.

- 1. Renewable Energy
- 2. Affordable Housing
- 3. Health infrastructure
- 51. With reference to Home Guards, consider the following statements :
 - 1. Home Guards are raised under the Home Guards Act and Rules of the Central Government.
 - 2. The rule of the Home Guards is to serve as an auxiliary force to internal security.
 - 3. To government infiltration on the international border/coastal areas, the Border Wing Home Guards Battalions have been raised in, some States.

How many of the above statements are correct? (a) Only one (b) Only two (c) All three (d) None **Ans. (b) :** Home Guards are raised under the Home Guards Act and Rules of states/Union Territories. Hence statement-I is incorrect. The Role of home guards is to serve as an auxiliary force to the police in maintenance of internal security situations, help the community in any kind of emergency such as an air raid, fire, cyclone earthquake etc. Hence statement-2 is correct some states (Rajasthan) have raised battalions with the name of border wing home guard to prevent infiltration on the international border.

52. With reference to India, consider the following pairs :

	Action	The Act under which it is covered		
1.	Unauthorized wearing of police or military uniforms	:	The Official Secrets Act, 1923	
2.	Knowingly misleading or otherwise interfering with a police officer or military officer when engaged in their duties	:	The Indian Evidence Act, 1872	
3.	Celebratory gunfire which can endanger the personal safety of others	•	The Arms (Amendment) Act, 2019	

How many of the above pairs are correctly matched?

(a) Only one (b) Only two (c) All three (d) None

Ans. (b) : The official Secrets Act, 1923 prohibits person from using or wearing, without lawful authority, any naval, military, air force, police or other official uniform, or any uniform so nearly resembling the same as to be calculated to deceive, or falsely represents himself to be a person who is or has been entitled to use or wear any such uniform. Hence Pair 1 is correctly matched.

Knowingly misleading or otherwise interfering with a police officer or military officer when engaged in their duties is under The Official Secrets Act, 1923. Hence Pair 2 is incorrectly matched.

The Arms Act Amendment of 2019 adds new offences such as forcefully taking a firearm from police or armed forces and using firearms in a celebratory gunfire which endangers human life or personal safety of others. Hence Pair 3 is correctly matched.

53. Consider the following pairs

1110	entioned in news	Reason for being in news		
1.	North Kivu and Ituri	•	War between Armenia and Azerbaijan	
2.	Nagarno- Karabakh	:	Insurgency in Mozambique	
3.	Kherson and Zaporizhzhia	:	Dispute between Israel and Lebanon	

(a) Only one (b) Only two (c) All three (d) None
 Ans. (d):

 North Kivu and Ituri
 Conflict in Democratic Republic of congo
 Nagorno-Karabakh
 War between Armenia and Azerbaijan

 Kherson and Zaporizhzhia – Allocks sites in Ukraine
 Hence none of the above pairs are correctly matched.

54. **Consider the following statements :** Rashtriva Khel Protsahan Puruskar Statement-I : Israel has established diplomatic The award recognised the involvement of corporates, relations with some Arab States. voluntary organisations and sports Control Boards, in Statement II : The 'Arab Peace Initiative' mediated by Saudi Arabia was signed by Israel the promotion and development of sports in the country over the previous three years. and Arab League. Hence only pair 1 & 3 are correctly matched. Which one of the following is correct in respect Consider the following statements in respect of 56. of the above statements : (a) Both Statement-I and Statement-II are correct the 44th Chess Olympiad, 2022 : It was the first time that Chess Olympiad and Statement-II is the correct explanation for 1. was held in India. Statement-I. (b) Both Statement-I and Statement-II are correct 2. The official mascot was named 'Thambi'. and Statement-II is not the correct explanation The trophy for the winning team in the 3. for Statement-I. open section is the Vera Menchik Cup. The trophy for the winning team in the (c) Statement-I is correct but Statement-II is 4. incorrect women's section is the Hamilton-Russell (d) Statement-I is incorrect but Statement-II is Cup. correct. How many of the statements given above are correct? Ans. (c) : Israel has established diplomatic relations (a) Only one (b) Only two (c) Only three (d) All four with some Arab countries over the years. The first Arab country to officially recognize and establish diplomatic Ans. (b) : 44th FIDE Chess Olympiad 2022 was the relations with Israel was Egypt. Thus statement I is first time the Chess Olympiad is being hosted in India. The official Mascot was named 'Thambi' (younger correct. Arab Peace Initiative was not signed by Israel. The Arab Peace Initiative was proposed by Saudi Arabia in brother) a chess knight dressed in the traditional Tamil Nadu male attire vetti with a white shirt. Hamilton 2002 at the Arab League summit in Beirut. It was Russell cup, is the trophy for the winning team in the endorsed by the Arab League as a potential resolution to the Israeli-Palestinian conflict. Thus statement II is open section while the Menchik cup is the trophy for the winning team in the women's section. Hence only pair 1 incorrect. & 2 are correctly matched. Consider the following pairs with regard to 55. 57. **Consider the following pairs :** sports awards : Area of conflict Country where it is 1. Major Dhyan For the most mentioned in news located Chand Khel spectacular and 1. Donbas Syria Ratna Award outstanding 2. Kachin Ethiopia performance by a 3. Tigray North Yemen sportsperson over period of last four How many of the above pairs are correctly vears matched? For the lifetime (a) Only one (b) Only two (c) All three (d) None Arjuna Award 2. achievement by a Ans. (d) : sportsperson Area of conflict Country 3. Dronacharya To honour eminent Donbas Ukraine coaches who have Award Kochin Myanmar successfully Tigray Ethiopia trained _ sportspersons or Hence none of the above given pairs are correctly teams matched. 4. Rashtriya Khel To recognize the 58 In the recent years Chad, Guinea, Mali and Protsahan contribution made Sudan caught the international attention for Puraskar which one of the following reasons common to by sportspersons even after their all of them? retirement (a) Discovery of rich deposits of rare earth How many of the above pairs are correctly elements (b) Establishment of Chinese military bases matched? (c) Southward expansion of Sahara Desert (a) Only one (b) Only two (c) All three (d) All four (d) Successful coups Ans. (b) : Ans. (d) : In recent years Chad, Guinea, Mali and Majors Dhyan Chand Khel Ratna Award Sudan hence a experienced coup attempts or successful For most spectacular and outstanding performance by a coups. sports person over a period of last 4 years. 59. Consider the following heavy industries : 1. Fertilizer plants 2. Oil refineries 3. Steel plants Ajuna Award It is officially known as Arjuna Green hydrogen is expected to play a Awards for outstanding performance, in sports and significant role in decarbonizing how many of games and is the second highest sporting honour of the above industries? India good performance in the field of sports over a (a) Only one (b) Only two (c) All three (d) None period of 4 years. Ans. (c) : Green hydrogen in expected to play a **Dronacharya Award** : To honour eminent coaches significant role in decarbonizing in all given heavy who have successfully trained sports persons or teams. industries.

 60. Consider the following statements about G-20: I. The G-20 group was originally exhibited as a platform for the Finance Ministers and Certral Bank Gevernors to discuss the international economic and financial issues. Digital public infrastructure is one of Lodinal Control the statement. J is correct but Statement-II is incorrect but Statement-II is incorrect. Oli entry (b) 2 only (c) Both 1 and 2 (d) Neiher I nor 2						
 as a platform for the Finance Ministers and Central Bank Governors to discuss the international consomic and financial issues. Which of the statements given above isfare (a) india's (-20 priorities. Which of the statements given above isfare (a) india (-10) 2 only(c) Both 1 and 2 (d) Neither 1 nor? Ans. (e) : The G-20 priorities. (a) I only(b) 2 only(c) Both 1 and 2 (d) Neither 1 nor? Ans. (e) : The G-20 group was founded in 1999 after (a) another distance is one of the India's G-20 priorities. (b) Eastan financial rissues. Digital public infrastructure is one of the India's G-20 priorities. (b) Eastan financial rissues. Digital public infrastructure is one of the India's G-20 priorities. (c) establishment of English Press in Colonial India (c) establishment of Churches in Princely States (c) establishment of English Press in Colonial India (c) establishment of English Press in Colonial India (c) establishment of English Press in Colonial India (c) establishment of Churches in Princely States (c) establishment of Churches in Princely States (c) establishment of English Press in Colonial (c) English Prince (c) Nore Churches in Princely States (c) establishment of Churches in Princely States (c) establishment of Churches in Princely States (c) establishment	60.	Cons	ider the followi	ng si	tatements about G-20 :	
 and Central Bank Governors to discuss the histophic first national handloom day statement-II is incorrect. Digital public infrastructure is one of the statement server. (a) tony(b) 2 only(b) 2 only(c) Boh 1 and 2 (d) Neither 1 nor 7. Ans. (c) The G-20 group was founded in 1999 after the context of financial issues. Digital public infrastructure is one of the India's G-20 priorities. (b) establishment of the glish press in Colonial (a) archaeological excavations (b) establishment of English Press in Colonial (c) establishment of Churches in Princely States (c) estatement-1 is incorrect in respect of the above statements: (a) and Natarge of the systematic gia (c) establishment of Churches in Princely States (c) establishment of Churches in Princely States (c) establishment of Churches in Princely States (c) (c) (c) (c) (c) (c) (c) (c) (c) (c)	1. The G-20 group was originally established				s originally established	
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of the above statements :Constituent Assembly of India set up a Drafting(a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I.Constituent Assembly of India set up a Drafting Committee under the Chairmanship of Dr. B.R. Ambedkar to prepare a Draft Constitution of India.						constitutional values among citizens.
(a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I.						
and Statement-II is the correct explanation for Statement-I. Ambedkar to prepare a Draft Constitution of India.		(a) I	Both Statement-I	and	Statement-II are correct	Committee under the Chairmanship of Dr. B.R.
				is th	e correct explanation for	Ambedkar to prepare a Draft Constitution of
			statement-1.			

Which one of the following is correct in respect 68. of the above statements :

- (a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I.
- (b) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I.
- (c) Statement-I is correct but Statement-II is incorrect.
- (d) Statement-I is incorrect but Statement-II is correct.

Ans. (c) : The constitution day is celebrated in India on 26 November every year to commemorate the adoption of the Constitution of India and also to promote the constitutional values among the citizen of India.

66. Consider the following statements : Statement-I : Switzerland is one of the leading exporters of gold in terms of value. Statement II : Switzerland has the second largest gold reserves in the world.

Which one of the following is correct in respect of the above statements :

- (a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I.
- (b) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I.
- (c) Statement-I is correct but Statement-II is incorrect.

(d) Statement-I is incorrect but Statement-II is correct.Ans. (c) : Switzerland is the leading exporter of gold in

the world. In 2021, Switzerland became 1st largest exporter of Gold in the world. While the Switzerland has 7th largest gold deposit in the world. Hence statement-1 is right

- while statement-2 is wrong.67. Consider the following statements :
 - Statement-I : Recently, the United States of America (USA) and the European Union (EU) have launched the 'Trade and Technology Council'. Statement II : The USA and the EU claim that through this they are trying to bring technological progress and physical productivity under their control.

Which one of the following is correct in respect of the above statements :

- (a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I.
- (b) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I.
- (c) Statement-I is correct but Statement-II is incorrect.
- (d) Statement-I is incorrect but Statement-II is correct.

Ans. (c) : Trade and Technology Council was launched by the United States of America and Europian Union during the EU-US Summit on 15 June, 2021 in Brussels with the aim to promote pooling of digital resources such as AI models and computing power and make them available to partner countries to address challenges in area such as climate change and extreme weather, health care or smart agriculture. Hence statement-I is correct while statement-II is incorrect.

Consider the following statements :

Statement-I : India accounts for 32% of global export of goods.

Statement II : Many local companies and some foreign companies operating in India have taken advantage of India's 'Production-linked Incentive' scheme.

Which one of the following is correct in respect of the above statements :

- (a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I.
- (b) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I.
- (c) Statement-I is correct but Statement-II is incorrect.
- (d) Statement-I is incorrect but Statement-II is correct.

Ans. (a) : As per latest data available (Economic Survey 2022-23) India accounts for 1.8% of Global export of goods and 4% of global exports of services. Thus statement-I is incorrect Production Linked Incentive (PLI) scheme is a form of performance linked incentive given to companies based on their incremental sales from products manufactured in domestic units. It's aimed at boosting the manufacturing sector and reduce imports of India.

PLI schemes can be availed by both domestic as well as foreign companies. Many domestic and foreign companies operating in India have taken advantage of PLI scheme. Hence statement II is correct.

69. Consider the following statements :

The 'Stability and Growth Pact' of the European Union is a treaty that

- 1. limits the levels of the budgetary deficit of the countries of the European Union
- 2. makes the countries of the European Union to share their infrastructure facilities
- 3. enables the countries of the European Union to share their technologies
- How many of the above statements are correct? (a) Only one (b) Only two (c) All three (d) None

Ans. (a) : The Stability and Growth Pact (SGP) is an agreement, among all the 27 member states of European Union. It's aim to level the budget deficits of European countries The corrective arm of the stability and Growth pact ensure that member states adopt appropriate policy responses to correct excessive deficits (and/or debts) by implementing the excessive deficit procedure (CDP). The SGP treaty does not require its members to share their infrastructure facilities nor their technologies with other countries. The purpose of SGP was to ensure that fiscal discipline would be maintained and enforced in the European Union. hence statement-1 is correct while statements 2 & 3 are incorrect.

- 70. Consider the following statements :
 - 1. Recently, all the countries of the United Nations have adopted the first-ever compact for international migration, the 'Global Compact for Safe, Orderly and Regular Migration (GCM)'.
 - 2. The objectives and commitments stated in the GCM are binding on the UN member countries.
 - **3.** The GCM addresses internal migration or internally displaced people also in its objectives and commitments.

How many of the above statements are correct?	
(a) Only one (b) Only two (c) All three (d) None	

now many of the above statements are correct.	(a) Doin 3
(a) Only one (b) Only two (c) All three (d) None	and St
Ans. (a) : The Global compact for safe, orderly and	Staten
regular migration is an intergovernmental agreement	(b) Both S
	and
prepared under the overall aegis of United Nations. It is	
first intergovernmental agreement covering international	explan
migration in a holistic and comprehensive manner. Till	(c) Statem
now only 163 countries have adopted the Global	incorre
Compact for safe, orderly and regular migration, United	(d) Statem
States, Hungary, Israel, Czech Republic and Poland are	
states, filingary, israel, ezech Republic and Foland are	correc
some of the countries that voted against the compact.	Ans. (d) : Trop
It is a non-legally binding agreement, that comprises 23	nutrient which a
objectives for better managing migration at local,	due to acidic
national, regional and global levels. Hence statements 1	Potassium, Calci
& 2 are incorrect while statement 3 is correct.	
	lest away due t
71. Consider the following countries :	slow. Hence state
1. Bulgaria 2. Czech Republic 3. Hungary	Tropical rainfor
4. Latvia 5. Lithuania 6. Ramania	consistent temp
	elevated temper
How many of the above-mentioned countries	
share a land border with Ukraine?	micro-organism
(a) Only one (b) Only three (c) All four (d) Only five	decompositions
Ans. (a) : Ukraine is bordered by Belarus, Russia	is correct.
Moldova Domania Hungary Slovakia and Doland	74. Consider t
Moldova, Romania, Hungary, Slovakia and Poland.	~
72. With reference to the Earth's atmosphere,	Statement
which one of the following statements is	continents
correct?	than in wir
	Statement
(a) The total amount of insolation received at the	than that of
equator is roughly about 10 times of that	Which one
received at the poles.	
(b) Infrared rays constitute roughly two-thirds of	of the abo
insolation.	(a) Both S
(c) Infrared waves are largely absorbed by water	and St
	Statem
vapour that is concentrated in the lower	(b) Both S
atmosphere.	
(d) Infrared waves are a part of visible spectrum	and
of electromagnetic waves of solar radiation.	explan
	(c) Statem
Ans. (c) : Equator receives more direct sunlight	incorre
compared to the poles, the actual difference in	
insolation is not as large as ten times. Hence option (a)	(d) Statem
is incorrect.	correc
Insolation refers to the total solar radiation received at	Ans. (d) : Th
Earth's surface, which includes a broad spectrum of	continents and or
	summer. Hence s
electromagnetic radiation. While infrared radiation is a	
significant component of solar radiation it does not	The specific heat
accounts for two thirds of insolation. Insolation includes	to raise the tem
visible light, ultraviolet (UV) radiation and other	amount. Water
wavelengths as well. Hence option (b) is also incorrect.	compare to land
Water vapour is a potent absorber of infrared radiation	*
particularly in certain wavelength bands.	75. Consider t
In the lower etmographere where the concentration of	1. In a
In the lower atmosphere where the concentration of	earlie
water vapour is relatively higher, it absorbs a significant	2. In P w
amount of infrared radiation emitted by the Earth's	
surface. This absorption contributes to the greenhouse	to an
effect and plays a crucial role in regulating the earth's	propa
temperature. Hence option (c) is correct.	partic
Infrared waves and visible light waves are distinct parts	angles
	propa
of electromagnetic spectrum.	Which of
The visible spectrum ranges from approximately 400 to	
700 Nano meters and includes the colours are perceive,	correct?
such as red, orange yellow green blue. Hence option (d)	(a) 1 Only (b
is incorrect.	Ans. (c) : P-way
73. Consider the following statements :	the first waves t
Statement-I : The soil in tropical rain forests is	the fastest seismi
rich in nutrients.	liquid and gas. F
Statement II : The high temperature and	means that the
moisture of tropical rain forests cause dead	direction of w
monstare of appeal fail forests cause deau	
organic matter in the soil to decompose quickly.	particles oscillate

Which one of the following is correct in respect of the above statements :

- (a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I.
- (b) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I.
- (c) Statement-I is correct but Statement-II is incorrect.
- (d) Statement-I is incorrect but Statement-II is correct.

Ans. (d) : Tropical rain forest soil is very poor in nutrient which are required by plants to grow. This is due to acidic nature of soil and incessant rains. Potassium, Calcium, Magnesium and Phosphorous are lest away due to leaching, thus regeneration is very slow. Hence statement-1 is incorrect.

Tropical rainforests typically experience warm and consistent temperatures throughout the year. These elevated temperatures enhance the activity of soil micro-organism rate which is responsible for faster decompositions of organic matters. Hence statement-2 is correct.

- 74. Consider the following statements :
 - **Statement-I**: The temperature contrast between continents and oceans is greater during summer than in winter.

Statement II : The specific heat of water is more than that of land surface.

Which one of the following is correct in respect of the above statements :

- (a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I.
- (b) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I.
- (c) Statement-I is correct but Statement-II is incorrect.
- (d) Statement-I is incorrect but Statement-II is correct.

Ans. (d) : The temperature contrast between the continents and oceans is more during winter rather than summer. Hence statement-1 is incorrect.

The specific heat is the amount of heat energy required to raise the temperature of a substance by a certain amount. Water has a relatively high specific heat compare to land surfaces. Hence statement 2 is correct.

- 5. Consider the following statements :
 - 1. In a seismograph, P waves are recorded earlier than S waves.
 - 2. In P waves, the individual, particles vibrate to and fro in the direction of wave propagation whereas in S waves, the particles vibrate up and down at right angles to the direction of wave propagation.

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) : P-waves, also known as primary waves are the first waves to arrive at seismograph, P. waves are the fastest seismic waves and can move through solid, liquid and gas. P-waves are longitudinal waves, which means that the particle motion occur parallel to the direction of wave propagation which means the particles oscillates back and forth in the same direction that the wave is travelling. Hence both statements are correct.

- 76. With reference to coal-based thermal power plants in India, consider the following statements :
 - 1. None of them uses seawater.
 - 2. None of them is set up in water stressed district.
 - 3. None of them is privately owned. How many of the above statements are correct?

(a) Only one (b) Only two (c) All three (d) None

Ans. (d) : The Mundra Thermal Power Plant utilizes seawater drawn from Gulf Kutch. Thus statement (1) is incorrect.

According to recent study of World Resources Institute 40 percent India's thermal power plants are situated in regions experiencing significant water stress. Thus statement (2) is incorrect.

India has a total 269 thermal power plants of which 138 owned by public sector and remaining 131 by private. Thus statement (3) is incorrect.

- 77. 'Wolbachia method' is sometimes talked about with reference to which one of the following?
 - (a) Controlling the viral diseases spread by mosquitoes
 - (b) Converting crop residues into packing material
 - (c) Producing biodegradable plastics
 - (d) Producing biochar from thermo-chemical conversion of biomass

Ans. (a) : The 'Wolbachia method' is a technique used to control the spread of viral disease transmitted by mosquitoes, such as Dengue, Zika and Chikangunya. Wolbachia is a type of bacterium that can be introduced into mosquitoes to reduce their ability to transmit these diseases. When mosquitoes carrying Wolbachia mate with mosquitoes without Wolbachia the resulting eggs do not hatch or produce oppspring, thus reducing the population of disease carrying mosquitoes.

78. Consider the following activities :

- 1. Spreading finely ground basalt pick on farmlands extensively.
- 2. Increasing the alkalinity of oceans by adding lime.
- 3. Capturing carbon dioxide released by various industries and pumping it into abandoned subterranean mines in the form of carbonated waters

How many of the above activities are often considered and discussed for carbon capture and sequestration?

(a) Only one (b) Only two (c) All three (d) None

Ans. (c) : Spreading finely ground basalt rock on Farmlands accelerates natural process of carbon dioxide capture from the atmosphere. The basalt reacts with carbon dioxide to form stable carbonates, effectively storing carbon.

Increasing alkalinity of the ocean by addition of lime enhances the capacity of oceans to absorb and store carbon dioxide from the atmosphere thereby aiding in carbon sequestration.

Capturing carbon dioxide released by industries and pumping it into abandoned subterranean mines is carbon capture and storage method. Abandoned subterranean sites, with the captured carbon dioxide pumped into these locations in the form of carbonated waters.

- 'Aerial metagenomics' best refers to which one of the following situations?
 - (a) Collecting DNA samples from air in a habitat at one go
 - (b) Understanding the genetic makeup of avian species of a habitat
 - (c) Using air-home devices to collect blood samples from moving animals
 - (d) Sending drones to inaccessible areas o collect plant and animal samples from land surfaces and water bodies

Ans. (a : 'Aerial met genomics' refers to the collection and analysis of DNA samples from the air or aerosol particles present in a specific habitat. It involves sampling the air in a particular environment to capture the genetic material (PDNA) in micro-organisms, including bacteria, viruses, Fungi and other microscopic organisms.

80. 'Microsatellite DNA' is used in the case of which one of the following?

- (a) Studying the evolutionary relationships among various species of fauna
- (b) Stimulating 'stem cells' to transform into diverse functional tissues
- (c) Promoting clonal propagation of horticultural plants
- (d) Assessing the efficacy of drugs by conducting series of drug trials in a population

Ans. (a) : Microsatellite DNA, also known as short tandem repeats, is a type of genetic marker that consist of repeating sequences of DNA. It is commonly used in genetic studies, including population genetics and phylogentic analysis, to study relationship among different species of Fauna.

- 81. Consider the following statements in relation to Janani Suraksha Yojana :
 - 1. It is a safe motherhood intervention of the State Health Departments.
 - 2. Its objective is to reduce maternal and neonatal mortality among poor pregnant women.
 - 3. It aims to promote institutional delivery among poor pregnant women.
 - 4. Its objective includes providing public health facilities to sick infants up to one year of age.

How many of the statements given above are correct.

(a) Only one (b) Only two (c) Only three (d) All four

Ans. (c) : Janani Suraksha Yojna is a safe motherhood intervention under the National Health Mission. It is not the intervention of State Health Departments.

The main objectives JSY are to reduce maternal and neonatal mortality by promoting institutional delivery among pregnant women especially with weak socioeconomic status.

In 2014 the programme was extended to all antenatal & post-natal complications of all sick newborns and infants (upto one year of age) accessing public health institutions for treatment.

- 82. Consider the following statements in the context of interventions being undertaken under Anaemia Mukt Bharat Strategy :
 - 1. It provides prophylactic calcium supplementation for pre-school children, adolescents and pregnant women.
 - 2. It runs a campaign for delayed cord clamping at the time of childbirth.

- 3. It provides for periodic deworming to children and adolescents.
- 4. It addresses non-nutritional causes of anaemia in endemic pockets with special focus on malaria, hemoglobinopathies and fluorosis.

How many of the statements given above are correct?

(a) Only one (b) Only two (c) Only three (d) All four

Ans. (c) : Anaemia Mukt Bharat strategy provides prophylactic Iron folic acid supplement (not prophylactic calcium) for pre-school children, adolescents and pregnant women. It also runs a campaign for delayed cord clamping at the time of child birth. It provides for periodic dewarming to children and adolescents. It also addresses non nutritional causes of anemia endemic pockets with special focus on malaria hemoglobin pathies and flurosis.

- 83. Consider the following statements :
 - 1. Carbon fibres are used in the manufacture of components used in automobiles and aircrafts.

2. Carbon fibres once used cannot be correct. 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. (a) : Carbon Fibre is increasingly celebrated as a wonder material for the clean economy. Its unique combination of high strength and low weight has helped drive the wind power revolution and make planes more fuel efficient. Auto makers are also waking up to the materials potential to make lighter and more efficient vehicles.

Though difficult to recycle, carbon Fiber can be recycled.

Thus statement 1 is correct and statement 2 is incorrect.

- 84. Consider the following actions :
 - 1. Detection of car crash/collision which results in the deployment of airbags almost instantaneously
 - 2. Detection of accidental free fall of a laptop towards the ground which results in the immediate turning off of the hard drive
 - **3.** Detection of the tilt of the smart-phone which results in the rotation of display between portrait and landscape mode
 - In how many of the above actions is the function of accelerometer required?

(a) Only one (b) Only two (c) Âll three (d) None

Ans. (c) : Accelerometer are devices that measure the vibration or acceleration of motion of a structure. Accelerometer is used in section of car collision/crash which results in the deployment of airbags almost instantaneously. If laptop were to suddenly drop while in use, the accelerometer would detect sudden free fall and immediately turn off the hard drive. An accelerometer detect tilt of the Smartphone which results in rotation of display between portrait and landscape mode Thus all three statements are correct.
 85. With reference to the role of biofilters in Recirculating Aquaculture System, consider the following statements :

- 1. Biofilters provide waste treatment by removing uneaten fish food.
- 2. Biofilters convert ammonia present in fish waste to nitrate.

- 3. Biofilters increase phosphorus as nutrient for fish in water.
- How many of the statements given above are correct?

(a) Only one (b) Only two (c) All three (d) None

Ans. (b) : Biofilters are important components of Recirculating Aquaculture systems to remove nitrogenous wastes excretes by aquatic organisms. Here nitrifying bacteria are used as biofilters to oxidise ammonia and convert it into nitrites which are also toxic. Some bacteria also convert these nitrites into final products which are non-toxic nitrates.

Biofilters are designed to filter pollutants and not to add nutrients. Thus statements 1 & 2 are correct and 3 is incorrect.

86. Consider the following pairs :

86.	Coi	nsider the followin	ig pa	irs :
	0	bjects in space		Description
	1.	Cepheids	:	Grant clouds of dust
		1		and gas in space
	2.	Nebulae	:	Stars which brighten
				and dim periodically
	3.	Pulsars	:	Neutron stars that
				are formed when
				massive stars run out
	TT.		1	of fuel and collapse
		w many of the st	abov	e pairs are correctly
		Only one		(b) Only two
		All three		(d) None
Δns				which brighten and dim
perio	dical	lly. Thus Pair-1 is i	ncor	rect.
				and gas in space. Thus
		ncorrect.		
Pulsa		e neutron stars. Th		
87.	Wh	ich one of the f	ollov	ving countries has its
		n Satellite Navigat		
		Australia		(b) Canada
		Israel		(d) Japan
Ans.	(d)	: Quasi-Zenith sa	atelli	te (8255) system is a
		satellite naviga	tion	system owned by
L		ent of Japan.		
88.		nsider the followin		
	1.	Ballistic missile	es a thu	re jet-propelled at oughout their flights,
		while cruise mi	ssile	s are rocket-powered
		only in the initial		
	2.			um-range supersonic
		cruise missile, v	vhile	BrahMos is a solid-
fuelled intercontinental ballistic missile.				
Which of the statements given above is/are				
		rect?	5 .4	1 1 O (1) NT- 31 1 O
				1 and 2 (d) Neither 1 nor 2
Ans.	(d)	: Cruise Missiles a	ire je	t propelled at subsonic
speed	us till	t-nowered only in	the	while ballistic missiles initial phase of flight
after	whi	ch they follow a	1 arc	trajectory to the
targe		en ency tonow a	i uit	ung ungeetory to the
		a ballistic missile	whi	le the BRAHMOS is a
		ange ramjet Supers		
		the statements are		
89.				statements regarding
		rcury pollution :		
	1.		activ	itv is a source of

- 1. Gold mining activity is a source of mercury, pollution in the world.
- 2. Coal-based thermal power plants cause mercury pollution.

3. There is no known safe level of exposure to	Ans. (c) : It is possible to make payments in digital
mercury.	currencies without using US dollar or SWIFT system.
How many of the above statements are correct?	Hence Statement I is correct. The digital Yuan is programmable to the extent that the currency can be
(a) Only one (b) Only two (c) All three (d) None	designed to expire, forcing users to spend it all by a
Ans. (c) : Mercury is used in mining of Gold thus a source of pollution. Statement 1 is correct.	specific date. It means that the digital currencies can be
Coal based Thermal power plants are major source of	programmed to be spent within a predetermined time
mercury. Thus statement 2 is correct.	range. Hence Statement II is correct.
Mercury is a highly toxic element, there is no safe level	93. In the context of finance, the term 'beta' refers to (a) the process of simultaneous buying and
of exposure. Thus statement 3 is also correct.	selling of an asset from different platforms
90. With reference to green hydrogen, consider the following statements :	(b) an investment strategy of a portfolio manager
1. It can be used directly as a fuel for internal	to balance risk versus reward
combustion.	(c) a type of systemic risk that arises where perfect hedging is not possible
2. It can be blended with natural gas and	(d) a numeric value that measures that
used as fuel for heat or power generation.	fluctuations of a stock to changes in the
3. It can be used in the hydrogen fuel cell to run vehicles.	overall stock market.
How many of the above statements are correct?	Ans. (d) : Beta is a concept by which a stock's expected
(a) Only one (b) Only two (c) All three (d) None	movement in relation to overall market movements is
Ans. (c) : Both hydrogen internal combustion engines	measured. A stock with a beta greater than is considered to be more volatile than the broader market while the
and hydrogen fuel cell can power vehicles using	stock with Beta less than 1 is considered to be less
hydrogen. Hydrogen engines burn hydrogen in an	volatile.
internal combustion engine. Thus statement I is correct. Hydrogen can be blended with natural gas and can be	94. Consider the following statements :
used as fuel with lower emission. Thus statement II is	1. The Self-Help Group (SHG) programme was originally initiated by the State Bank
correct.	of India by providing microcredit to the
Fuel cell electric vehicles are powered by hydrogen.	financially deprived.
They are more efficient than internal combustion	2. In an SHG, all members of a group take
engine. Thus statement III is correct.	responsibility for a loan that an individual member takes.
91. Consider the following statements with reference to India :	3. The Regional Rural Banks and Scheduled
1. According to the Micro, Small and Medium	Commercial Banks support SHGs.
Enterprises Development (MSMED) Act,	How many of the above statements are correct?
2006', the 'medium enterprises' are those	(a) Only one (b) Only two (c) All three (d) None
with investments in plant and machinery between ₹ 15 crore and ₹ 25 crore.	Ans. (b) : NABARD began promoting SHG's in 1991-
2. All bank loans to the Micro, Small and	1992 and it served as the launch pad for SHG movement. Hence Statement I is incorrect.
Medium Enterprises qualify under the	The banks provide the loan to SHG as a whole and it is
priority sector.	the collective responsibility of the SHG to repay that
Which of the statements given above is/are correct?	loan. Hence all members of a group take responsibility
(a) 1 only (b) 2 only	for a loan that an individual member takes. Hence Statement II is correct.
(c) Both 1 and 2 (d) Neither 1 nor 2	Both SCB's and RRB's support the SHG. Hence
Ans. (d) : As per the MSMED Act 2006, the Medium	Statement III is correct.
Enterprises are those for which the investment in plant	Thus option (b) is correct.
and machinery is not more than Rs. 50 crore and turnovers not more than Rs. 250 crore. Thus statement I	95. Consider the following statements :
is incorrect.	Statement-I : India's public sector health care
According to RBI's All bank loans to MSMEs that meet	system largely focuses on curative care with limited preventive, promotive and rehabilitative care.
the criteria outlined in the Master Direction on Priority	Statement II : Under India's decentralized
Sector Lending (PSL) targets and classification are only	approach to health care delivery, the States are
eligible to classify as PSL. Thus statement II is incorrect. 92. With reference to Central Bank digital	primarily responsible for organizing health services.
92. With reference to Central Bank digital currencies, consider the following statements :	Which one of the following is correct in respect of the above statements :
1. It is possible to make payments in a digital	(a) Both Statement-I and Statement-II are correct
currency without using US dollar or SWIFT systems.	and Statement-II is the correct explanation for Statement-I.
2. A digital currency can be distributed with a condition programmed into it such as a	(b) Both Statement-I and Statement-II are correct and Statement-II is not the correct
time-frame for spending it.	explanation for Statement-I.
Which of the statements given above is/are correct?	(c) Statement-I is correct but Statement-II is incorrect.
	incorrect.
(a) 1 only (b) 2 only (c) \mathbf{D} d 1 = 12 (c) \mathbf{D} if \mathbf{D} = 12	(d) Statement-I is incorrect but Statement-II is
(a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2	

 Ans. (b) : As per the National Health Policy 2017. India's Public Sector health core system focuses on improving health status through coordinated police action in all sectors. It also focuses on expanding preventive promotive, curative, palliative and rehabilitative service through public health sector which focuses on quality of these services. The states are primarily incharge of organising health services under India's decentralised system for providing healthcare. 'Health and Sanitation' is in states list under schedule 7 of the constitution. Thus Statement I and Statement II both are correct however statement II does not explain statement I. 96. Consider the following statements : Statement-I : According to the United Nations World Water Development Report, 2022, India extracts more than a quarter of the world's groundwater withdrawal each year. Statement II : India needs to extract more than a quarter of the world's groundwater each year to satisfy the drinking water and sanitation needs of almost 18% of world's population living in its territory. Which one of the following is correct in respect of the above statements : (a) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-II are correct and Statement-II is not the correct explanation for Statement-II are correct and Statement-II is not the correct explanation for Statement-II is incorrect. (b) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-II is incorrect. (c) Statement-I is correct but Statement-II is incorrect. 	 98. Which one of the following countries has been suffering from decades of civil strife and food shortages and was in news in the recent past for its very severe famine? (a) Angola (b) Costa Rica (c) Ecuador (d) Somalia Ans. (d) : In Somalia 6.5 million people are currently facing Severe Food insecurity amid the driest condition in 40 years after is consecutive failed rainy seasons. Also there was a civil strife of three decades in Somalia. 99. Consider the following statements : 1. In India, the Biodiversity Management Committees are key to the realization of the objectives of the Nagoya Protocol. 2. The Biodiversity Management Committees have important functions in determining access and benefit sharing, including the power to levy collection fees on the access of biological resources within its jurisdiction. 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) : Nagoya protocol aims to equitable share the benefits resulting from the use of genetic resources. According to Biological Diversity Act 2002, every local body in the state shall establish a Biodiversity Management Committee within its area of jurisdiction for the purpose of promoting biological diversity anagement Committee within its area of jurisdiction for the purpose of promoting biological diversity anagement Committee within its area of jurisdiction for the purpose of promoting biological diversity anagement Committee within its area of jurisdiction. In India, the BHC's functions as the agency for the implementations of the objectives of Nagoya Protocol. The Biodiversity Act gives BHC's the independent authority to charge those who collect biological resources within their territorial jurisdiction by way of the function is a strate and so the access is a somalize of the objectives of somaly access and benefit sharing access and benefit share access and benefit share access and benefi
 Ans. (c) : According to United Nations World Water Development Report 2022, India is world's largest groundwater user. This accounts for more than a quarter of the total ground water extracted internationally. India uses 89% of extracted groundwater is used in irrigation and not for drinking and sanitation purpose. Thus Statement I is correct and Statement II is incorrect. 97. Consider the following statements : According to the Constitution of India, the Central Government has a duty to protect States from internal disturbances. The Constitution of India exempts the States from providing legal counsel to a person being held for preventive detention. According to the Prevention of Terrorism Act, 2002, confession of the accused before the police cannot be used as evidence. How many of the above statements are correct? (a) Only one (b) Only two (c) All three (d) None Ans. (b) : Article 355 of the constitution provides for the responsibility of Union to protect states from providing legal counsel to a person being held for preventive detention. As per Section 32(1) of POTA, 2002, Confession of the accused before preventive detention. 	 collection of fees. 100. Consider the following statements in respect of election to the President of India : The members nominated to either House of the Parliament or the Legislative Assemblies of States are also eligible to the included in the Electoral College. Higher the number of elective Assembly seats, higher is the virtue of vote of each MLA of that State. The value of vote of each MLA of Madhya Pradesh is greater than that of Kerala. The value of vote of each MLA of Puducherry is higher than that of Arunachal Pradesh because the ratio of total population to total number of elective seats in Puducherry is greater as compared to Arunachal Pradesh. How many of the above statements are correct?

UNION PUBLIC SERVICE COMMISSION			
Civil Services (Preliminary Exam) - 2024			
	DIES : PAPER-I		
Time : 2 hours(Exam date : 2	3.06.2024) Maximum Number : 200		
 Consider the following statements: Statement-I: There is instability and worsening security situation in the Sahel region. Statement-II: There have been military takeovers/coups d'etat in several countries of the Sahel region in the recent past. Which one of the following is correct in respect of the above statements? (a) Both Statement-I and Statement-II are correct, but Statement-II dexplains Statement-I (b) Both Statement-I and Statement-II is incorrect (d) Statement-I does not explain Statement-II is incorrect (d) Statement-I is incorrect, but Statement-II is correct Ans.(a): Sahel region extended west to east in Africa Which differentiate Sahara desert from south grasslands. In this region the expansion of Senegal, Mauritania, Mali, Burkina Faso, Niger, Nigeria, Chad, Sudan and Eritrea on the top of many conflicts, rising price and dwindling humanitarian change are creating additional serious stains. The area has also seen a high prevalence of coups (military takeovers) d'etat, currently ruling in Mali, over the last three years, the African Sahel region has witnessed a wave of coups d'etat in seven countres. In this reference we can say both I and II Statements are correct. Hence option A is correct. Consider the following is correct in respect of the above statements? (a) Both Statement-I and Statement-II are correct and Statement-II: In India, the law prohibits the import of Genetically Modified food without then approval of the competent authority. Which one of the following is correct in respect of the above statement-I (b) Both Statement-I and Statement-II are correct, but Statement-II explains Statement-I (c) Statement-I and Statement-II are correct and Statement-II explains Statement-I (c) Statement-I and Statement-II are correct du Statement-II explains Statement-I	 Ans.(a): When any resolution for the removal of speaker of the Lok Sabha is under consideration, he/she can not preside at the sitting of Lok Sabha. However, he may be present in the house. When any resolution for the removal of speaker of the Lok Sabha is under consideration, he/she can speak and take part in the proceedings of the House. When any resolution for removal of speaker of the Lok Sabha is under consideration he is entitled to vote in the first instance and not in the case of an equality of votes. Therefore Statement 2 and 3 is incorrect and statement 1 is the correct answer. With reference to the Indian Parliament, consider the following statements: A bill pending in the Lok Sabha lapses on its dissolution. A bill passed by the Lok Sabha and pending in the Rajya Sabha lapses on the dissolution of the Lok Sabha. A bill regard to which the President of India notified his/her intention to summon the Houses to a joint sitting lapses on the dissolution of the Lok Sabha. A bill regard to which the President a bill pending in the Rajya Sabha lapses (whether originating in the Lok Sabha is dissolved a bill pending in the Lok Sabha lapses (whether originating in the Lok Sabha is dissolved, a bill passed by the Lok Sabha is dissolved a bill pending in the Lok Sabha is dissolved, a bill passes. When the Lok Sabha lapses (whether originating in the Lok Sabha is dissolved, a bill passed by the Lok Sabha any pending in the Rajya Sabha lapses. When the Lok Sabha is dissolved, a bill passed by the Lok Sabha but pending in the Rajya Sabha lapses. When the Lok Sabha is dissolved, a bill passed by the Lok Sabha but pending in the Rajya Sabha lapses. When the Lok Sabha is dissolved, a bill passed by the Lok Sabha but pending in the Rajya Sabha lapses. When the Lok Sabha is dis		

• Prorogation normally follows the adjournment of the sitting of the House sine die. The time lag between the adjournment of the house sine die and its prorogation is generally two to four days. However, the President can also prorogue the house while in session.

• The President of India can dissolve the Lok Sabha before the expiry of its term on the advice of the Union Council of ministers. Hence, statement 2 & 3 are correct.

Consider the following statements: 6.

Statement-I: The European Parliament approved The Net-Zero Industry Act recently. Statement-II: The European Union intends to achieve carbon neutrality by 2040 and therefore aims to develop all of its own clean technology by that time.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- (b) Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- (c) Statement-I is correct, but Statement-II is incorrect
 (d) Statement-I is incorrect, but Statement-II is correct

Ans.(c): The European Parliament has recently approved the Net-Zero Industry Act, to enhance netzero technology production within the European Union. • The European Union aims to be climate neutral by 2050 an economy with net-zero greenhouse gas emissions. It is part of the European Green deal and is a legally binding target.

• The Act sets a target for the European to produce 40% of its annual needs for the net-zero emitting technologies by 2030, base on national energy and climate plans that each state will have to develop. It also aims to achieve 15% of the global market value for such technologies. The act aims to ensure that the bloc produces 40% of its solar panels, wind turbines, heat pumps and other clean tech equipment by 2030.

Consider the following statements: Statement-I: Recently, Venezuela has achieved a rapid recovery from its economic crisis and succeeded in preventing its people from fleeing/emigrating to other countries. Statement-II: Venezuela has the world's largest oil reserves.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- (b) Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- Statement-I is correct, but Statement-II is incorrect
- (d) Statement-I is incorrect, but Statement-II is correct

Ans.(d): The ongoing socioeconomic and political crisis in Venezuela is marked by hyperinflation, escalating starvation, disease, crime and mortality rates. This has resulted in massive emigration from the country. The situation is believed to be by far the worst economic crisis in Venezuela's history. According to the national Living Conditions survey by 2021- 94.5% of the population was living in poverty based on income out of this 76.6% lived in extreme poverty.

• Venezuela is currently the country with the largest proven oil reserves in the world, with an estimated 300 billion barrels of oil.

- With reference to the Digital India Land **Records Modernization Programme, consider** the following statements:
 - 1. To implement the scheme, the Central Government provides 100% funding.

- 2. Under the Scheme, Cadastral Maps are digitalized.
- 3. An initiative has been undertaken to transliterate the Records of Rights from local language to any of the languages recognized by the Constitution of India.

Which of the statements given above are correct? (b) 2 and 3 only (d) 1, 2 and 3 (a) 1 and 2 only (c) 1 and 3 only

Ans.(d): Digital India Land Records Modernization Programme was revamped and converted as a central sector scheme with effect from 1st April, 2016 with 100% funding by the centre.

• The main components of the Programme are: (i) Setting Up of Modern Record Room.

(ii) Survey/re- survey

(iii) Data entry/re-data entry

(iv) Digitization of cadastral maps/FMBs/Tippans

(v) DIL RMP Cell (ví) PMU

(vii) Evaluation Studies, IEC and Training

(viii) Core GIS/Software Applications.

• One of the innovative initiatives under Digital India Records Modernization Programme Land transliteration of land records in all languages of schedule VIII in all state/UTs. In order to address the problem of linguistic barriers in land governance, the Government with the technical support of Centre for Development of Advanced Computing (C-DAC) Pune, has undertaken an initiative to transliterate the Records of Rights available in local language to any of the 22 schedule VIII language of the Constitution.

- With reference to the 'Pradhan Mantri 9 Surakshit Matritva Abhiyan', consider the following statements:
 - 1. This scheme guarantees a minimum package of antenatal care services to women in their second and third trimesters of pregnancy and six months post-delivery health care service in any government health facility.
 - 2. Under this scheme, private sector health care provides of certain specialities can volunteer to provide services at nearby government health facilities.

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.(b): The 'Pradhan Mantri Surakshit Matritva Abhiyan' has been launched by the ministry of Health & Family welfare, Government of India. The program aims to provide assured, comprehensive and quality antenatal care, free of cost, universally to all pregnant women.

• Under the campaign, a minimum package of antenatal care services is to be provided to the beneficiaries on the 9^{th} day of every month in the 2^{nd} and 3^{rd} trimester of pregnancy. The services can be availed at Primary Health centers, community Health centers, Rural Hospitals, sub-District Hospital - District Hospital Medical college. However, the Scheme does not guarantee six months postdelivery care.

• The programme also invites active participation from private practitioners on a voluntary. Obstetricians physicians from private sector and retired Obsterician Gynecologist (OB/GYN) specialists are encouraged to provide voluntary services at designated public health facilities on the 9th of every month.

With reference to the Pradhan Mantri Shram 10. Yogi Maan-dhan (PM-SYM) Yojana, consider the following statements:

- 1. The entry age group for enrolment in the scheme is 21 to 40 years.
- 2. Age specific contribution shall be made by the beneficiary.
- 3. Each subscriber under the scheme shall receive a minimum pension of ₹ 3,000 per month after attaining the age of 60 years.
- 4. Family pension is a applicable to the spouse and unmarried daughters.
- Which of the statements given above is/are correct?

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

Ans.(b): In order to provide old age protection to unorganised sector workers, the Government of India had launched Pradhan Mantri Shram Yogi Maan dhan (PM-SYM) in 2019. The Life Insurance corporation of India is the fund manager of the scheme. This is a voluntary and co-contributory pension scheme.

• The workers in the age group of 18-40 years whose monthly income is Rs. 15000/- or less can join the scheme.

• Under the scheme, 50% of monthly contribution varies between Rs. 55/- to Rs. 200/- depending upon the entry age is payable by the beneficiary and equal matching contribution is paid by the central Government.

• The scheme aims to provide a monthly pension of Rs-3000/- after attaining the age of 60 years to unorganized workers

• If the beneficiary dies, the spouse of the beneficiary shall be entitled to receive 50% of the pension as family pension. Family pension is only applicable to spouse

- Consider the following statements regarding 'Nari Shakti Vandan Adhiniyam'. 11.
 - 1. Provisions will come into effect from the 18th Lok Sabha.
 - 2. This will be in force for 15 years after becoming an Act.
 - 3. There are provisions for the reservation of seats for Scheduled Castes Women within the quota reserved for the Scheduled Castes. Which of the statements given above is/are correct?

(a) 1, 2 and 5	(0) 1 and 2 only
(c) 2 and 3 only	(d) 1 and 3 only

Ans.(c): In September 2023, parliament passing the women's Reservation Bill called the Nari Shakti Vandan Adhiniyam. The bill called the Nari Shakti seeks to reserve one third of total number of seats for women in Lok Sabha, State Legislative Assemblies and Delhi Assembly. The allocation of reserved seats shall be determined by such authority as prescribed by Parliament.

• According to the provisions of the bill, the reservation is set to be enforced following the publication of a new census and the completion of the delimitation exercise. Furthermore, it's important to note that for the bill to be fully ratified, it necessitates approval from a minimum of 50% of the states.

 Reservation seats for women shall cease to exist 15 years after the commencement of this Amendment Act.

 The Bill provides that one- third of the total number of seats reserved for scheduled castes and scheduled Tribes shall be reserved for women of those groups in the Lok Sabha and the legislative assemblies.

- Which of the following statements 'Exercise Mitra Shakti-2023' are correct? 12. about
 - 1. This was a joint military exercise between India and Bangladesh.
 - 2. It commenced in Aundh (Pune).
 - **3.** Joint response during counter-terrorism operations was a goal of this operation.
 - 4. Indian Air Force was a part of this exercise. Select the answer using the code given below: (a) 1, 2 and 3 (b) 1, 2 and 4

(d) 2, 3 and 4

Ans.(d): Exercise MITRA SHAKTI - 2023 is a joint

(c) 1, 3 and 4

military exercise between India and Sri Lanka.
The 9th edition of Joint Military exercise "Exercise MITRA SHAKTI-2023" commenced in Aundh (Pune). • The scope of the exercise includes synergizing joint responses during counter terrorist operations. Both sides practiced missions, heliborne operations etc. In adition, Army Martial Arts Routine (AMAR), combat reflex shooting and yoga will also from part of the exercise curriculam.

• 15 personnel from Indian Air Force and 5 personnel from Sri Lanka Air Force participated in the exercise.

- A Writ of Prohibition is an order issued by the 13. Supreme Court or High Courts to:
 - (a) A government officer prohibiting him from taking a particular action.
 - (b) The Parliament/Legislative Assembly to pass a law on Prohibition.
 - (c) The lower court prohibiting continuation of (d) The Government
 - prohibiting it from following an unconstitutional policy

Ans.(c): Prohibition means 'to forbid'. It is issued by a higher court to lower court or tribunal to prevent the latter from exceeding its jurisdiction or usurping a jurisdiction that it does not possess. The writ of prohibition can be issued only against judicial and quasi-Judicial authorities.

- **Consider the following statements:** 14.
 - 1. It is the Governor of the State who recognizes and declares any community of that State as a Scheduled Tribe.
 - 2. A community declared as a Scheduled Tribe in a State need not be so in another State.
 - Which of the statements given above is/are correct? (b) 2 only(d) Neither 1 nor 2 (a) 1 only
 - (c) Both 1 and 2

Ans.(b): According to Article 342 of the constitution of India, the President (not the governor of the state) may, with respect to any state or union territory, after consultation with the Governor of the state specify the communites that are deemed to be scheduled tribes in relation to that state or Union Territory.

• Supreme Court of India has clarified through various Judgements that a community declared as scheduled Tribe in one state need not to be so in another state.

- With reference to Union Budget, consider the following statements:
 - 1. The Union Finance Minister on behalf of the Prime Minister lays the Annual Financial Statement before both the Houses of Parliament.
 - 2. At the Union level, no demand for a grant can be made except on the recommendation of the President of India.
 - 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.(b): Article 112 of the Constitution says that the President of India (not the Prime Minister of India) shall in respect of every financial year cause to be laid before both the Houses of Parliament "an annual financial statement". So, the finance minister lays the budget in the Parliament on behalf of the President.

• Article 113 says that no demand for a grant shall be made except on the recommendation of the President.

- Who of the following is the author of the books 16. "The India Way" and "Why Bharat Matters"? (a) Bhupendra Yadav

 - (b) Nalin Mehta
 - (c) Shashi Tharoor
 - (d) Subrahmanyam Jaishankar

Ans.(d): "The India Way" and "Why Bharat Matters" Ans.(d): Environmental Protection Agency (EPA)'s are authored by Subrahmanyam Jaishankar. national ambient air quality standards for SO₂ are designed to protect against exposure to the entire group 17. **Consider the following pairs:** of sulfur oxides (SO_2) . The largest sources of SO_2 emissions are from fossil fuel combustion at power Country Reason for being in the news Argentina Worst economic cricis War between the country's plants and other industrial facilities. Sudan regular army and paramilitary 21 How many Delimitation Commission have been forces constituted by the Government of India till 3. Turkey Rescinded its membership of December, 2023? NATO (a) One(c) Three (b) Two How many of the pairs given above are (d) Four correctly matched? Ans.(d): Delimitation means the process of fixing the (a) Only one pair (b) Only two pairs number of seats and boundaries of territorial (c) All three pairs (d) None of the pairs constituencies in each state for the Lok Sabha and Ans.(b): Legislative Assemblies. The union government creates Argentina has been experiencing one of its worst the Delimitation Commission once the Delimitation Act economic crises in recent history, marked by several into effect. Under the Delimitation Acts of 1952, 1962, key issues like inflation, recession, currency devaluation, debt etc. Hence pair-1 is correct. 1972, and 2002, Delimitation Commissions were established four time in - 1952, 1962, 1972 and 2002. In Sudan fighting has erupted between the regular The commission was not created after the 1981 and army and a paramilitary force called the Rapid 1991 censuses. Support Forces (RSF). It is a direct result of a vicious The Constitution (71st Amendment) Act, 1992 power struggle within the country's military 22. amends the Eighth Schedule to the Constitution leadership. Hence pair-2 is correct. to include which of the follownig languages? Turkey is currently a member of NATO and has not 1. Konkani 2. Manipuri rescinded its membership. Hence pair-3 is correct. 3. Nepali 4. Maithili Consider the following statements: Statement-I : Sumed pipeline is a strategic route for Persian Gulf oil and natural gas Select the correct answer using the code given below: (a) 1, 2 and 3 (c) 1, 3 and 4 (b) 1, 2 and 4 (d) 2, 3 and 4 shipments to Europe. Statement-II : Sumed pipeline connects the Red Ans.(a): Konkani, Manipuri and Nepali were included by the 71st Amendment Act of 1992 in the eighth Sea with the Mediterranean Sea. Which one of the following is corret in the schedule of the constitution. Mediterranean Sea. 23. **Consider the following pairs:** (a) Both Statement-I and Statement-II are correct and Party Its Leader Statement-II explains Statement-I. 1. Bharatiya Jana Dr. Shyama Prasad (b) Both Statement-I and Statement-II are Sangh Mukherjee correct, but Statement-II does not explain C. Rajagopalachari 2. Socialist Party Statement-I 3. Congress for Jagjivan Ram (c) Statement-I is corret, but Statement-II in incorrect. Democracy (d) Statement-I is incorrect, but Statement-II is correct 4. Swatantra Party Acharya Narendra Dev Ans.(a): 'The Sumed Pipeline' is strategic route for How many of the above are correctly matched? Persian Gulf oil and natural gas shipments to Europe (a) Only one (b) Only two and North America. (c) Only three (d) All four The Sumed pipeline is located in Egypt and connect Ans.(b): Dr. Shyama Prasad Mukherjee founded the Red sea with the Mediterranean sea. Which Bharatiya Jana Sangh in 1951 at Delhi and he became works as a strategic route for persian gulf air and its first president. natural gas shipment to Europe and North America. C Rajagopalachari parted ways with the congress in Hence both statements are correct and statement-II 1957 after being disillusioned by the path it was taking. He founded the Swantantra Party in 1959, which favoured classical liberal principles and free enterprise. explain statement-I. **Consider the following statements:** little 1. The Red Sea receives very Babu Jagiivan Ram resigned from the cabinet and precipitation in any form. 2. No water enters the Red Sea from rivers. congress party in 1977 and formed his own party, 'Congress for Democracy'. Which of the statements given above is/are correct? Acharya Narendra Dev was instrumental in the (b) 2 only (a) 1 only establishment of the 'Congress Socialist Party' in (c) Both 1 and 2 (d) Neither 1 nor 2 1934 as a radical faction working within the Indian Ans.(c): The Red Sea receives very little precipitation in any form. The majority of the Red sea coastline, both National Congress. east and west, receives less than 250 mm of rainfall 24. Which of the following statements are correct about the Constitution of India? annually and is therefore classified as desert. Red sea exchanges its water only with the Mediterranean sea and the Indian ocean. Unlike most 1. Powers of the Municipalities are given in Part IX A of the Constitution. Emergency provisions are given in Part seas, no rivers flow into it. 2. XVIII of the Constitution. 20. According to the Environmental Protection 3. Provisions related to the amendment of the Agency (EPA), which one of the following is the largest source of sulphur dioxide emissions? Constitution are given in Part XX of the (a) Locomotives using fossil fuels Constitution. (b) Ships using fossil fuels Select the answer using the code given below: (c) Extraction of metals from ores (a) 1 and 2 only (b) 2 and 3 only (d) Power plants using fossil fuels (c) 1 and 3 only (d) 1, 2 and 3

Ans.(d): Part IX A- The Municipalities	28. Operations undertaken by the Army towards
Urban self Government entities are defined under the	upliftment of the local population in remote
constitution Act of 1992 in terms of their organization	areas to include addressing of their basic needs
membership, authority and duties.	is called:
Part XVIII- Emergency Provisions.	(a) Operation Sankalp (b) Operation Maitri
The Emergency Provision in India is covered in part	(c) Operation Sadbhavana (d) Operation Madad
XVIII of contitution.	Ans.(c):
• Part XX Amendment to the contitution.	• As part of 'Operation SADBHAVANA', Indian
Article 368 particularly addresses amendments, while	Army is undertaking multiple activities such as
other provisions of the constitution provide amendments	running of Army Goodwill schools, Infrastructure
through the ordinary parliamentary system.	Development projects and education tours etc. For the
	children living in remote areas of Union Territory (UT)
25. Which one of the following statements is correct	
as per the Constitution of India?	of Laddakh. To improve the standard of education and
(a) Inter-State trade and commerce is a State	to provide them with quality education.
subject under the State List.	29. The longest border between any two countries
(b) Inter-State migration is a State subject under	in the world is between:
the State List.	(a) Canada and the United States of America
(c) Inter-State quarantine is a Union subject	(b) Chile and Argentina
under the Union List.	(c) China and India
(d) Corporation tax is a State subject under the	(d) Kazakhstan and Russian Federation
State List.	Ans.(a):
Ans.(c):	Border Length
• Union list point 42-Inter-state trade and commerce.	(a) Canada and USA - 8,891 km
Union list point 81-Inter-state migration, inter-state	(b) Chile and Argentina - 5,308 km
quarantine.	(c) China and India - 3,488 km
• Union list point 85-corporation tax.	(d) Kazakhstan and Russian Federation - 7,644 km
• According to points 42, 81 and 85 of union list of	30. Which of the following statements about the
seventh schedule, all above subjects are related to the	Ethics Committee in the Lok Sabha are correct?
union list.	1. Initially it was an ad-hoc Committee.
26. Under which of the following Articles of the	2. Only a Member of the Lok Sabha can make
Constitution of India, has the Supreme Court of	a complaint relating to unethical conduct of
India placed the Right to Privacy?	a member of the Lok Sabha.
(a) Article 15 (b) Article 16	3. This Committe cannot take up any matter
(c) Article 19 (d) Article 21	which is sub-judice.
Ans.(d): On 24 August, 2017 the Supreme Court of	Select the answer using the code given below:
India gave the Right to Privacy Verdict. In case of	(a) 1 and 2 only (b) 2 and 3 only
	(a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only
Justice K.S Puttaswamy and Anothers Vs. Union of	(c) 1 and 3 only (d) 1, 2 and 3
Justice K.S Puttaswamy and Anothers Vs. Union of India and other case the Supreme court held that the	(c) 1 and 3 only (d) 1, 2 and 3 Ans.(c): The late speaker Ganti Mohana Chandra
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 Ans.(a): The act proposed the creation of a 'Federation of India' that would include both British Indian territories and princely state. However, the federation never materialized due to a lack of support from the required number of princely states. Hence statement-I is correct. The act introduced the concept of dyarchy at the centre. Defense and Foreign Affairs were kept under the control of Governor General. Hence statement-II is incorrect. 33. Which one of the following is a work attributed to playwright Bhasa? (a) Kavyalankara (b) Natyashastra (c) Madhyama-vyayoga 	 Which of the above countries are frequently mentioned in the media for their low birth rates, or ageing population or declining population? (a) 1, 2 and 4 (b) 1, 3 and 5 (c) 2 and 4 only (d) 3 and 5 only Ans.(a): Italy is in stage 4 of the Demographic Transition Model. This stage is characterized by low birth rate and low death rates leading to stable or decline population. Japan is an example of a stage 5 country. Where birth rates have fallen below death rates. South Korea has one of the fastest ageing population and the lowest birth rate in the world. The country is on route to becoming a so called super aged society by 2025. Nigeria is currently at the second stage of demographic transition and expected to remain at
 Madhyama-vyayoga (The middle one) is a Sanskrit play attributed to Bhasa, a famous Sanskrit poet. He also wrote the 'Duta Ghatotkacha', 'Datavakya', 'Balacharita and Charudatta'. 34. Sanghabhuti, an Indian Buddhist monk, who travelled to China at the end of the fourth century AD, was the author of a commentary on: (a) Prajnaparamita Sutra (b) Visuddhimagga 	 this stage in the next five decades. 38. Which of the following statements are correct in respect of a Money Bill in the Parliament? Article 109 mentions special procedure in respect of Money Bills. A Money Bill shall not be introduced in the Council of States. The Daine Schee can either approve the Bill
 (c) Sarvastivada Vinaya (d) Lalitavistara Ans.(c): Kashmir was the most prosperous Buddhist study centre in India and was also the centre of most formidable Buddhist school in North India- the 'Sarvastivada' school. The successive Kushana spurred the prosperity of Buddhism in Kashmir to curpert Buddhism 	 3. The Rajya Sabha can either approve the Bill or suggest changes but cannot reject it. 4. Amendments to a Money Bill suggested by the Rajya Sabha have to be accepted by the Lok Sabha. Select the answer using the code given below: (a) 1 and 2 only (b) 2 and 3 only (c) 1, 2 and 3 (d) 1, 3 and 4
 support Buddhism. Sanghabhuti was one of the first Kashmiri scholars to reach China in AD 381. He translated a large number of Buddhist scriptures into Chinese. The most important work among the them contains detailed annotation about the 'Vinaya Pitaka' of the Sarvastivada school. 35. Consider the following properties included in 	 Ans.(c): Article 109 of the constitution mentions a special procedure in respect of Money Bill. Money Bill must be introducing in Lok Sabha and cannot be introduced in Rajya Sabha (Council of States). The Rajya Sabha can only make recommendation on a Money Bill but does not have the power to amend or reject it.
 53. Consider the following properties included in the World Heritage List released by UNESCO: 1. Shantiniketan 2. Rani-ki-Vav 3. Sacred Ensembles of the Hoysalas 4. Mahabodhi Temple Complex at Bodhgaya How many of the above properties were included in 2023? 	 Amendments to a Money Bill suggested by Rajya Sabha, which Lok Sabha may reject if it chooses to. Hence, statement 4 is not correct. Which of the following is/are correctly matched in terms of equivalent rank in the three services of Indian Defence forces?
(a) Only one (b) Only two (c) Only three (d) All four	I. Brigadier Air Commander Commodore Commodore Commander 2. Major General Air Vice Vice
Ans.(b): World Heritage List UNESCO Shantiniketan - 2023 Rani-ki-Vav- 2014	MarshalAdmiral3.MajorSquadronLieutenant
Sacred Ensembles of the Hoysalas - 2023 Mahabodhi Temple Complex at Bodhgaya - 2002 Hence the option (b) is correct answer.	LeaderCommander4.LieutenantGroupCaptainColonelCaptainCaptain
36. As per Article 368 of the Constitution of India, the Parliament may amend any provision of the Constitution by way of:	Select the correct answer using the code given below: (a) 1 and 4 (b) 1 and 3 (c) 2, 3 and 4 (d) 3 only
1. Addition 2. Variation3. RepealSelect the correct answer using the code given below:(a) 1 and 2 only(b) 2 and 3 only(c) 1 and 3 only(d) 1, 2 and 3	Ans.(d): The correct match is as follows- Indian Army Indian Air Indian Navy force Indian Navy force Image: Im
Ans.(d): Article 368 grants the exclusive power to amend the constitution of India to the parliament. It specifies that the parliament may amend by way of	force Fleet • General Air Chief Marshal Marshal
addition, variation or repeal any provision of the constitution in accordance with the procedure laid down in the article.	Major General Air Vice Rear Admiral Marshal (Hence pair 2 is incorrect matched)
 37. Consider the follownig countries: 1. Italy 2. Japan 3. Nigeria 4. South Korea 5. South Africa 	Brigadier Air Commander (Hence Commodore pair 1 is incorrect matched)

•	Colonel	Group Caption	Caption
•	Lt. Colonel	Wing Commander	Commander
•	Major	Squadron Leader	Lt. Commander (Hence pair 3 is correct matched)
•	Caption	Flight Lieutenant	Lieutenant
•	Lieutenant Colonel	Flying Officer	Sub-Lieutenant (Hence pair 4 is incorrect matched)

40. The North Eastern Council (NEC) was established by the North Eastern Council Act, 1971. Subsequent to the amendment of NEC Act in 2002, the Council comprises which of the following members?

- 1. Governor of the Constituent State.
- 2. Chief Minister of the Constitution State.
- 3. Three Members to be nominated by the President of India.

4. The Home Minister of India.

Select the correct answer using the code given below: (b) 1, 3 and 4 only (d) 1, 2, 3 and 4 (a) 1. 2 and 3 only (c) 2 and 4 only

Ans.(a): According to the North Eastern Council (Amendment) Act-2002.

- NEC members include the Governors and chief Ministers of 8 states, including Sikkim.
- And 3 member nominated by the President.
- The President shall nominate the chairman of the council.
- **Consider the following statements:** 41.

Statement-I : If the United States of America (USA) were to default on its debt, holders of US Treasury Bonds will not be able to exercise their claims to receive payment. Statement-II: The USA Government debt is not backed by any hard assets, but only by the faith of the Government.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- (b) Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- (c) Statement-I is correct, but Statement-II is incorrect
- (d) Statement-I is incorrect, but Statement-II is correct

Ans.(d):

- If the USA were to default on its debt, holders of US Treasury bonds would still have the legal right to exercise their claims to receive payment.
- The U.S. Govt. debt including Treasury bonds, bill and notes is not backed by any specific hard assets. Instead it is backed by the 'Full faith, and credit' of the U.S. Government.

Hence, statement I is not correct and statement II is correct.

42. **Consider the following statements:**

Statement-I : Syndicated lendings spreads the risk of borrower default across spreads the risk of borrwer default across multiple lenders. Statement-II : The syndicated loan can be a fixed amount/lump sum of funds, but cannot be a credit line.

Which one of the following is correct in respect of the above statements?

(a) Both Statement-I and Statement-II are correct and Statement-II explains Statement-I

- (b) Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-l
- (c) Statement-I is correct, but Statement-II in incorrect
- (d) Statement-I is incorrect, but Statement-II is correct

Ans.(c): Syndicated lending involves a group of lenders collectively providing funds to a borrower. This approach helps in spreading the risk associated with borrower default across multiple lenders rather than having a single lender bear the entire risk. Hence statement-I is correct.

A syndicated loan can indeed be structured as either a fixed amount (a lump sum) or as a credit line (revolving credit facility). In a revolving credit facility the borrower can access funds upto a specified limit repay the borrowed amount and than borrow again up to the limit during the term of the facility. This flexibility is one of the key features of syndicated loans. Hence statement-II is correct.

- 43. Consider the following statements in respect of the digital rupee:
 - 1. It is a sovereign currency issued by the Reserve Bank of India (RBI) in alignment with its monetary policy.
 - 2. It appears as a liability on the RBI's balance sheet.
 - 3. It is insured against inflation by its very design. 4. It is freely convertible against commercial
 - bank money and cash.

Which of the statements given above are correct? (a) 1 and 2 only (b) 1 and 3 only (c) 2 and 4 only (d) 1, 2 and 4

Ans.(d): The Central Bank Digital currency (CBDC) or

Digital Rupee (or ₹) is a digital variant of physical currency issued by the Reserve Bank of India.

- The CBDS (or Digital Rupee) is a sovereign currency issued by RBI in accordance with their monetary policy.
- It is freely convertible against commercial bank money and cash.
- When bank customers convert their deposits into digital rupee, the RBI will have to take these liabilities from the books of banks and onto its own balance sheet
- With reference to ancient India, Gautama Buddha was generally known by which of the 44. following epithets?
 - 2. Shakyamuni 1. Nayaputta
 - 3. Tathagata
 - Select the correct answer using the code given below: (b) 2 and 3 only (a) 1 only
 - (c) 1, 2 and 3
 - (d) None of the above are epithets of Gautama Budha

Ans.(b): Shakyamuni- This epithet means "Sage of shakyas" and is commonly used to refer to Gautama Buddha, highlighting his origin from 'Shakya Clan'.

- Tathagat- This term used by Gautama Buddha to refer to himself or other Buddhas, means one who has this gone" or "one who has thus come". Nayaputta- This epithet used for Mahavira, the 24th
- Tirthankara of Jainism.

<u>45</u> .	Consider the follo	wing informat	ion:
	Archaeological Site	State	Description
1.	Chandraketugarh	Odisha	Trading Port
			town
2.	Inamgaon	Maharashtra	Chalocolithic
3.	Mangadu	Kerala	Megalithic
4.	Salihundam	Andhra	Rock-cut cave
		Pradesh	shrines

In which of the information corr		ws is the given		r the following is a memb		nternational
(a) 1 and 2	(b) 2	and 3	Grai	ns Council.		
(c) 3 and 4	(d) 1		2. A co	untry needs	to be a men	mber of the
Ans.(b): The correct r	A			national Grai porting rice a		or exporting
Archaeological Site Chandraketugarh	State West Bengal	Description Trading Port	Which of	f the statements	given above is	/are correct?
Chandraketugarn	west bengai	Town	(a) 1 on		(b) 2 only	
Inamgaon	Maharashtra	Chalcolithic site	(c) Both	1 and 2	(d) Neither	r 1 nor 2
Mangadu	Kerala	Megalithic site	Ans.(c):			
Salihundam	Andhra	Buddhist	The Internat	ional Grains Co	uncil (IGC) wa	as established
	Pradesh	stupas and	in 1949 as	the Internationa	al Wheat Cou	ncil and was
		monastic		995 under grain		
		complexes		e designated as i		
46. Who of the foll gave permission fort at Bhatkal?	n to the Portu	of medieval India guese to build a	 India has be member in J 			
(a) Krishnadeva (c) Muhammad	raya (b) Na Shah III (d) Yi	arasimha Saluva usuf Adil Shah	• India is a m (IGC).		nternational G	rains council
Ans.(a):				il, 2020 its n		
• Krishnadevaraya sig	gned a treaty w	ith the Portugese		nembers and 18		
in 1510, it permitted	I Albuquerque t	o construct fort at		one of the f		
Bhatkal.	d Darbaga Da	rtugaga travalara		n in the Inta	ngible Cultu	ral Heritage
 Domingo Paes and visited in Krishnade 				NESCO? au Dance	(h) Durge	Duia
 He also helped the 				au Dance	(b) Durga (d) Kumbł	
Bijapur in 1510.			Ans.(c):	Ju Dullee		
 Bhatkal fort located at 	Uttara Kannada d	istrict in Karnataka.	Culture	Туре	State/	Added IN
		e collection by	Name	J 1* -	Region	UNESCO
Cornwallis, con	sider the follow	ving statements:	Chhau	Performing	West	2010
1. Under the F	Ryotwari Settle	ement of revenue	dance	art	Bengal,	
		e exempted from			Jharkhand,	
		f bad harvests or	Durga Puja	Festival	Odisha Kolkata	2021
natural calai 2 Under the P		ement in Bengal,		Festival	Gujarat	2021
		y his revenues to	Kumbh	Festival	Prayagraj,	2023
		e fixed date, he	Mela	1 CStrvar	Haridwar,	2017
	noved from his				Nashik	
		ove is/are correct?			and Ujjain	
(a) 1 only	(b) 2			inclusion in		ole cultural
(c) Both 1 and 2	2 (d) N	either 1 nor 2		of UNESCO is		
Ans.(b):	This sectors			l fertility rate	in an econor	ny is defined
Ryotwari Settlemen sir Thomas Munro in		was instituted by	as:	number of chi	ldran harn na	- 1000 naonla
 The rent in the Ryot 		s naid directly by		e population in		1000 people
peasants to the gove		is paid directly by	(b) The	number of ch	ildren born to	a couple in
 In this system the ta 		% in dryland and		lifetime in a g		
60% in wetland.			(c) The	birth rate minu	s death rate.	
• Peasants were not	exempted from	n paying revenue	(d) The	average numb	er of live bir	ths a woman
even in crop failure	or natural Clam	ities.		ld have by the e		
• Permanent Settler			Ans.(d): The	Fotal fertility I	Rate (TFR) is	the average
Zamindar failed to p by specified date, h	bay the fixed re	venue to the state	number of live	births a wom	an would hav	e by the end
auctioned off by the			of her child-be ● In India, th	a mg age (13-4	ycals).	s significant
48. Consider the fol			decline, from 6			
1. There are no	0		• TFR of ab			
		l earlier than the	D 1 1		1	
2. Opanishads Puranas.	, ere composed	a variivi tilali tilt	• TFR lower the	an 2.1 children		
	ements given ab	ove is/are correct?	generation is r	ot producing	enough childre	en to replace
(a) 1 only	(b) 2		itself, which lea	-	-	n population.
(c) Both 1 and 2		either 1 nor 2		r the following		
Ans.(b): Upnishads ar	e the texts cont			dia, Non-Banl		
between teachers and s				rs access the ity window of		
• Some Upanishads in			India		. the hest	June 01
Chhandogya Upnish	ad tells story of	wise beggar and		dia, Foreign I	nstitutional I	nvestors can
Katopnishad tells sto				the Governme		
 Upanishads were co Puranas were compo 	sed over 300-1	000-000 BC, and	3. In	India, Stock	Exchanges	can offer
i uranas were compe	JSCU OVEL 300-1	000 AD.	separ	ate trading pl	atforms for d	lebts.

- n India, Foreign Institutional Investors can old the Government Securities (G-Secs).
- n India, Stock Exchanges can offer eparate trading platforms for debts.

Which of the statements given above is/are correct?	Ans.(b): The economic activity and related sector is as-
(a) 1 and 2 only (b) 3 only	Economic activity Sector
(c) 1, 2 and 3 (d) 2 and 3 only	Storage of agricultural produce Primary sector
Ans.(c): Liquidity Adjustment Facility (LAF) is a	Dairy farm Primary sector
facility extended by RBI to the scheduled commercial	Mineral exploration Primary sector
banks (excluding RRBs) and Primary dealers (PDs) to	Weaving cloth Secondary sector
avail of liquidity in case of requirement or park excess	56. Consider the following materials:
funds with RBI.	1. Agricultural residues
• Only some specified NBFCs are part of PDs and	2. Corn grain
major NBFCs are not part of PDs remain outside the	3. Wastewater treatment sludge
 preview of accessing LÅF window of RBI. Foreign institutional investors (FIIs) who obtain 	4. Wood mill waste
specific approval from SEBI have been permitted to	Which of the above can be used as feedstock
invest 100% of their portfolios in debt securities.	for producing Sustainable Aviation Fuel?
• National stock exchange (NSE) will be the first	(a) 1 and 2 only (b) 3 and 4 only
exchange to offer a separate trading platform for debts.	(c) 1, 2, 3 and 4 (d) 1, 3 and 4 only
• Which an aim to develop corporate debt market in the	Ans.(c): Sustainable Aviation Fuel (SAF) is a type of
country, SEBI allowed creation of a separate debt	liquid fuel currently used in commercial aviation
segment on stock exchanges.	(airplanes) to reduce green house gas (CO ₂) emissions by up to 80%.
53. In India, which of the following can trade in	• It is made from various source, including waste oil,
Corporate Bonds and Government Securities?	fats, green and municipal waste and non-food crops.
1. Insurance Companies 2. Pension Funds	• Corn grain, oil seeds, Algae, Agricultural residues
3. Retail Investors	wood mill waste, wet waste (manure and wastewater
Select the answer using the code given below:	treatment sludge) are used to make aviation fuel (SAF).
(a) 1 and 2 only (b) 2 and 3 only	57. With reference to physical capital in Indian
(c) 1 and 3 only (d) 1, 2 and 3	economy, consider the following pairs:
Ans.(d): Government securities (G-sec) is a tradable	Items Category
instrument issued by the central government or the state	1. Farmer's plough Working capital
government.	2. Computer Fixed capital
• Corporate bonds and government securities are two	3. Yarn used by the weaver Fixed capital
types of investments that companies and governments	4. Petrol Working capital
 use to raise money. Major players in the G-sec and corporate bond market 	How many of the above are correctly matched?
include commercial bank and Primary dealers (PDs)	(a) Only one (b) Only two
besides institutional investors like insurance companies.	(c) Only three (d) All four
• Pension funds and Retail investors are main	Ans.(b): Physical capital in Indian Economy- Items Category
participants in G-Sec and corporate bonds.	ItemsCategoryFarmer's ploughWorking Capital
54. Consider the following:	Computer Fixed Capital
1. Exchange-Traded Funds (ETF)	Yarn used by the weaver Working capital
2. Motor vehicles	Petrol Working capital
3. Currency swap Which of the above is/are considered financial	58. Which one of the following words/phrases is most
instrument?	appropriately used to deonte "an interoperable
(a) 1 only (b) 2 and 3 only	network of 3D virtual worlds that can be accessed
(c) 1, 2 and 3 (d) 1 and 3 only	simultaneously by millions of users, who can exert
Ans.(d): Financial instruments are intangible assets,	property rights over virtual items"?
which are expected to provide future benefits in the	(a) Big data analytics (b) Cryptography
form of a claim to future cash. It is a tradable asset.	(c) Metaverse (d) Virtual matrix
• Exchange- Trade Funds (ETFs) are financial	Ans.(c): The term 'Metaverse' refers to an interconnected network of 3D virtual worlds in which
instruments that track the performance of a basket of assets	users represented by avatars interact.
 (stock, bonds) and allowing investors to buy or sell them. Currency swap is a financial derivative contract in which 	• The metaverse often conflated (combined) with the
two parties exchange the amount of loan in one currency to	virtual reality (VR) and augmented reality (AR)
another currency, based on current exchange rate.	technology used to experience a shared 3D world.
• Motor vehicles are not considered financial	• Users can create and own virtual items within the
instruments. They are tangible assets used for	metaverse.
transportation and are not traded as financial securities	59. With reference to the rule/rules imposed by the
or derivatives on financial markets.	Reserve Bank of India while treating foreign
55. With reference to the sectors of there Indian	banks, consider the following statements:
economy, consider the following pairs:	1. There is no minimum capital requirement
Economic activity Sector	for wholly owned banking subisidiaries in
1. Storage of agricultural Secondary produce	India.
2. Dairy farm Primary	2. For wholly owned banking subsidiaries in
3. Mineral exploration Tertiary	India, at least 50% of the board members
4. Weaving cloth Secondary	should be Indian nationals.
How many of the above are correctly matched?	Which of the statements given above is/are correct?
(a) Only one (b) Only two	(a) 1 only (b) 2 only
(c) Only three (d) All four	(c) Both 1 and 2 (d) Neither 1 nor 2

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Ans.(b): RBI allows foreign banks to operate in India either	Ans.(d): Giant stars have greater rate of the nuclear
	reactions that light up stars. Massive stars also use up
through branch presence or they can set up a wholly owned	
subsidiary (WOS) with near national treatment.	the hydrogen fuel in their core faster, leading to a
• The initial minimum paid -up voting equity capital far	shorter overall lifespan.
a WOS shall be 5 billion.	• Having greater masses than sun, these massive stars
• The composition of the board of directors of WOS	have hotter and denser cores than dwarf stars, Therefore
	Gight store have a greater rate of the nuclear reactions
should meet requirements- not less than 50 percent of	Giant stars have a greater rate of the nuclear reactions.
the directors should be Indian nationals, as defined	• Hence statement-I is incorrect & statement-II is correct.
under section 10A of the banking Regulation Act, 1949.	63. Which one of the following is synthesised in
60. With reference to Corporate Social Responsibility	human body that dilates blood vessels and
(CSR) rules in India, consider the following	increases blood flow?
statements:	(a) Nitric oxide (b) Nitrous oxide
1. CSR rules specify that expenditures that	(c) Nitrogen dioxide (d) Nitrogen pentoxide
benefit the company directly or its	Ans.(a) :
employees will not be considered as CSR	
	Nitric oxide (Nitrogen Oxide or Nitrogen Monoxide
activities.	: NO') is a colorless gas.
2. CSR rules do not specify minimum spending	• Nitric oxide (NO) is produced in the human body
on CSR activities.	from inorganic nitrates in green leafy vegetables,
Which of the statements given above is/are correct?	fruits, grains and processed meats. It is stored in the
(a) 1 only (b) 2 only	
	body as nitrate. It is very important for the health of
(c) Both 1 and 2 (d) Neither 1 nor 2	blood vessels.
Ans.(a): Under the companies (CSR Policy) Rules,	• It is a vasodilator, which means it relaxes the inner
2024, any activity benefitting employees, of the company	muscles of your blood vessels, causing the vessels
shall not be considered as eligible CSR activity.	to widen. In this way, nitric oxide increases blood
• As per rule, any activity designed exclusively for the	flow and lowers blood pressure
banefit of amployace shall be considered as "activity	flow and lowers blood pressure.
benefit of employees shall be considered an "activity	• Nitrous oxide is also called laughing gas. It is also
benefitting employees" and will not qualify as	used for clinical anesthesia. The main effect of
permissible CSR expenditure.	nitrogen dioxide is on the respiratory system.
• As per rule section 135 of the companies Act 2013,	
	64. Consider the following activities:
mandates, that certain companies must allocate at least	1. Identification of narcotics on passengers at
2% of their average net profits from preceding three	airports on in aircraft/
financial years towards CSR activity.	2. Monitoring of precipitation
61. With reference to radioisotope thermoelectric	3. Tracking the migration of animals
generators (RTGs), consider the following	In how many of the above activities can be
statements:	
	radars be used?
1. RTGs are miniature fission reactors.	(a) Only one (b) Only two
2. RTGs are used for powering the onboard	(c) All three (d) None
systems of spacecrafts.	(c) All three (d) None
systems of spacecrafts.	(c) All three (d) None Ans.(c) : • Heinrich Hertz is considered to be the
systems of spacecrafts. 3. RTGs can use Plutonium-238, which is a by-	(c) All three (d) None Ans.(c) : • Heinrich Hertz is considered to be the inventor of RADAR.
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 66. In which of the following are hydrogels used? 1. Controlled drug delivery in patients 2. Mobile air-conditioning systems 3. Preparation of industrial lubricants 	 It can be used for domestic waste water treatment, industrial waste water treatment and production of reusable water. Working Mechanism–MBR systems first undergo
(a) 1 only (b) 1 and 2 only	conventional biological purification, in which micro
(a) For $f(a)$ (b) Fand 2 only (c) 2 and 3 only (d) 1, 2 and 3	organisms decompose organic material, next, a
Ans.(d):	membrane filtration unit separates clean water by
• A hydrogel is a water-based material with a soft	filtering out solid particles. The membrane is usually
consistency and moisturizing properties.	micro filtration or ultra filtration.
• Hydrogels are used in the biomedical industry for therapeutic delivery. It is also used in tissue	
engineering. In ophthalmology, intraocular lenses,	
Contact lenses and corneal prostheses, bone cement	(a) Bond market (b) Forex market
for orthopedics, Hydrogels are also used in wound	(c) Money market (d) Stock market
 dressings. Hygiene products-Hydrogels are used in diapers 	Ans.(c):
and sanitary pads as they can absorb high amounts of	
liquid.	is a money market instrument that represents an
• Construction-Hydrogels are used to retain moisture	
in concrete, improving its setting process.	the terms and conditions of the loan.
 These properties and uses of hydrogels indicate its important role in various fields. 	
67. Which one of the following is the exhaust pipe	• CBLO is operated by clearing corporation of India limited (CCIL) and Reserve Bank of India (RBI).
emission from Fuel Cell Electric Vehicles	
powered by hydrogen?	mutual funds, insurance companies and other
(a) Hydrogen peroxide (b) Hydronium (c) Oxygen (d) Water vapour	financial institutions who use it for liquidity
Ans.(d):	management and meeting cash requirement.
• The emissions from hydrogen-powered fuel cell	• The purpose of CBLO is to facilitate short-term
electric vehicles (FCEVS) are mostly water (H ₂ O).	borrowing and lending facility to banks and other
The chemical reaction between hydrogen and oxygen	
in a fuel cell produces electricity, and the only by products of this process are steam and hot air.	both the borrowing and lending parties use eligible securities as collateral through The Clearing
Therefore, these vehicles do not emit harmful gases,	
making them much more environmentally friendly	
than conventional petrol or diesel powered vehicles.	skater ⁹ , are:
68. Recently, the term "pumped-storage hydropower"	(u) = 12000
is actually and appropriately discussed in the context of which one of the following?	e (c) Insects (d) Reptiles
(a) Irrigation of terraced crop fields	Ans.(c):
(b) Lift irrigation of cereal crops	• Cicada -A cicada is a type of insect that is part of the
(c) Long duration energy storage(d) Rainwater harvesting system	cicadoidea family. These insects are known for their
Ans.(c):	distinctive sound which they produce mainly during
	distinctive sound, which they produce mainly during mating time
	mating time.
 Pumped storage hydropower (PSH) is a type of hydroelectric energy storage. 	 mating time. Cicadas are important to the ecosystem because they improve soil quality and help cycle nutrients among
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Which one of the following is correct in respect ||Ans.(a): of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- (b) Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- (c) Statement-I is correct, but Statement-II is incorrect
- (d) Statement-I is incorrect, but Statement-II is correct

Ans.(a):

- Chewing gum is a soft, sticky substance that can be chewed but not swallowed. It is primarily composed of gum base, sweeteners, flavorings and softeners.
- Fillers like talc and calcium carbonate help increase the size and bulk of the gum, polymers such as polyvinyl acetate (PVA) give the gum its elasticity and emulsifiers are used to add flavors and colors to the gum and reduce stickiness, softeners such as vegetable oils are added to the gum base to keep it chewable and soft.
- Regular chewing gum contains a substance called polyvinyl acetate (PVA) which is used to make tires and glue. The gum we eat is plastic based. Research Gate reported that chewing gum produces more than 105 tons of plastic waste every year. Thus, the discarded non-biodegradable remnants of gum create plastic pollution. 73.

1	e ponution.	
. C	onsider the following	pairs:
	Country	Animal found in its
		natural habitat
1.	Brazil	Indri
2.	Indonesia	Elk
3.	Madagascar	Bonobo
		given above are correctly
	atched?	•
(8	a) Only one c) All three	(b) Only two(d) None
(0	c) All three	(d) None

Ans.(d):

- Indri-Indri, also known as babakoto. Indri is a type of lemur found in the eastern rainforests of Madagascar. Indri is famous for its loud, terrifying call which can be heard from for away. Indri is considered an endangered species, its numbers are decreasing due to habitat destruction, hunting and continuous reduction in forest area.
- Elk The Elk (Cervus Canadensis) is one of the largest deer family (cervidae) in the world, and one of the largest land mammals in North America and East Asia.
- **Bonobo**-The Bonobo is an endangered ape found in the forests of Central Africa. The Bonobo has also been historically known as the 'pygmy chimpanzee'.
- The Bonobo is found in an area of 500000 square km within the Cango Basin of the Democratic Republic of the Congo (DRC) in Central Africa.
- 74. Consider the following statements regarding World Toilet Organization:
 - 1. It is one of the agencies of the United Nations.
 - 2. World Toilet Summit, World Toilet Day and World Toilet College are the initiatives of this organization, to inspire action to tackle the global sanitation crisis.
 - 3. The main focus of its function is to grant funds to the least developed countries and developing countries to achieve the end of open defecation.

Which of the statements given above is/are correct? (b) 3 only (d) 2 and 3

(a) 2 only (c) 1 and 2

- The World Toilet Organization (WTO) was founded by Jack Sim on 19 November, 2001 in Singapore with the Goal of improving toilet and sanitation conditions around the world. It is a non-profit organization (NGO). Hence, the WTO (World Toilet Organization) is not a United Nations Agency.
- With the establishment of the WTO on 19 November, 2001, it was announced to celebrate this day as 'World Toilet Day', which received official recognition of 'United Nations Day' in the year 2013.
- The WTO works to improve sanitation facilities globally through various initiatives, campaigns and partnerships, especially in areas where lack of sanitation causes serious health problems.
- Programs like 'World Toilet Summit' and 'Urgent Run' are organized by the WTO. Through the Urgent Run Program, immediate action is called for to deal with the sanitation crisis.
- The World Toilet College was launched in 2005 by the WTO as a social enterprise aimed at promoting innovative research in toilet design, sanitation and hygiene technologies, and ensuring hygiene standards.
- Other initiatives of the organization are the Rainbow School Toilet initiative in 2015 and the 'floating community Toilet' Project in 'Tonle Sap Lake', Cambodia in 2018.
- Its main function is not to provide funds to LDCs and developing countries.
- The WTO was granted consultative status with the United Nations Economic and Social Council in 2013.
- **Consider the following statements:** 75.
 - 1. Lions do not have a particular breeding season.
 - Unlike most other big cats, cheetahs do not roar.
 - 3. Unlike male lions, male leopards do not proclaim their territory by scent marking. Which of the statements given above are correct? (a) 1 and 2 only (b) 2 and 3 only

(c) 1 and 3 only (d) 1, 2 and 3

Ans.(a):

- Lions do not have a specific breeding season. Usually, it can occur throughout the year.
- Cheetah do not roar, cheetahs are not capable of roaring like other big cats. Cheetahs belong to the "Purring Cats" subfamily and as such do not roar. On the other hand, animals like lions and tigers are capable of roaring.
- Male leopards actually declare their territory by scent marking. They mark their territory in various ways, among which scent marks are prominent. They spray urine, scratch trees with their claws and sometimes even use feces to scent mark. These scent marks inform other leopards about the boundaries of their territory and discourage any encroachment.
- In contrast, lions also mark their presence and territory by scent marking but lions usually live in herds and defend their territory. Collectively, while leopards live alone and defend their territory individually.
- The International Big Cat Alliance (IBCA) is a mega global alliance launched by India during the 50th anniversary of Project Tiger in April, 2023. The alliance aims to conserve the world's seven major big cats, which include the Tiger, Lion, Snow Leopard, Leopard, Jaguar, Puma and Cheetah.
- 76. Which one of the following is the correct description of "100 Million Farmers"?

(a) It is a platform for accelerating the transition towards food and water systems that are net-	inverted flower. Its interior is suitable for pollination
zero (carbon), nature-positive and that aims to increase farmer resilience.	by the fig wasp. The female fig wasp enters the
(b) It is an international alliance and a network of	syconium of the fig and lays eggs in it. During entry, the wasp also spreads the pollen it has brought with it,
individuals and farming organisations interested	which pollinates the fig flowers. The famale wasp lays
in supporting and strengthening the	her eggs in tiny flowers inside the fig. The wasp eggs
development of the organic animal husbandary.	hatch in to larvae, which use the flowers as food.
(c) It is a digital platform fully integrated with	• Thus, this symbiotic relationship between figs and fig
service providers and built on blockchain that lets buyers, sellers and third parties trade	wasps ensures that both organisms depend on each
fertilizers quickly and securely.	other to survive and grow.
(d) It is a platform with the mission of	79. Consider the following: 1. Butterflies 2. Fish 3. Frogs
encouraging the farmers to form Farmer	How many of the above have poisonous species
Product Organisations or Agribusiness	among them?
Consortiums, thus facilitating the access to global open markets to sell their products.	(a) Only one (b) Only two
Ans.(a):	(c) All three (d) None
• '100 Million Farmers' is a platform that helps private	Ans.(c): There are some toxic species of Butterflies,
and public leaders accelerate collective action to	fish and frogs. The main ones being the following–
establish food and farmers as central pillars on the	Butterfly: Monarch Butterfly (Danaus playinnus) This butterfly
global climate and nature agenda and to scale up	Monarch –Butterfly (Danaus plexippus)–This butterfly collects a toxin called cardenolide from milkweed
 climate and nature-friendly agricultural practices. Objective of 100 Million Farmers : Build farmer 	plants in its life cycle, which makes it toxic.
resilience for food security, in support of the	Fish :
transition to net-Zero and nature positive food and	Pufferfish (Tetraodontidae family)–This fish contains
water system by 2030.	a toxin called tetraodotoxin in its various organs, which
77. Consider the following:	is extremely lethal.
1. Battery storage	Stonefish (Synanceia) –This fish has a toxin in its
 Biomass generators Fuel cells 	spine, wich can be very painful and potentially fatal. Frog :
4. Rooftop solar photovoltaic units	Poison Dart Frogs (Dendrobatidae Family) : These
How many of the above are considered	frogs secrete a toxin called batrachotoxin from their
"Distributed Energy Resources"?	skin, which is very lethal to predators.
(a) Only one (b) Only two (c) Only three (d) All four	These toxic species use the toxin to protect themselves
Ans.(d):	from predators and extreme caution should be taken
 Distributed Energy Resources (DER) refer to energy 	while handling them. 80. Consider the following:
resources that are located near consumers rather than	80. Consider the following:1. Cashew 2. Papaya 3. Red sanders
centralized power plant.	How many of the above trees are actually
• These resources provide flexibility in electricity	native to India?
generation, storage, and consumption and are of various types–	(a) Only one (b) Only two
a– Rooftop solar photovoltaic units	(c) All three (d) None
b–Wind power generation units	Ans.(a): The native tree of India is Paleta Chanden
c-Battery storage	• The native tree of India is Rakta Chandan (Pterocarpus Santalinus). Cashew (Anacardium
d–Biomass generators, which run on waste gas or industrial and agricultural by products	occidentale) and papaya (Carica Papaya) are not
e–Fuel cells.	native trees of India.
f-Open and closed cycle gas turbines. etc.	• Cashew is native to north-eastern Brazil it was brought
 Advantages of Distributed Energy Resources– 	to India by the Portuguese in the late 16th Century.
- Improved energy efficiency	• The native place of papaya is South Mexico and
 Flexibility and reliability Incorporation of renewable energy 	Costa Rica. India is the world leader in the production of Papaya.
– Local economic benefits.	• The native place of red sandalwood is Andhra Pradesh.
• Distributed energy resources are playing an	81. Consider the following airports:
important role in the modern energy system and can	1. Donyi Polo Airport
help meet future energy demands and solve environmental problems.	2. Kushinagar International Airport
78. Which one of the following shows a unique	3. Vijayawada International Airport
relationship with an insect that has coevolved	In the recent past, which of the above have
with it and that is the only insect that can	been constructed as Greenfield projects? (a) 1 and 2 only (b) 2 and 3 only
pollinate this tree?	(c) 1 and 2 only (d) 1, 2 and 3 only (d) 1, 2 and 3
(a) Fig (b) Mahua (c) Sandalwood (d) Silk cotton	Ans.(a): Since 2019, 6 Greenfield airports namely,
Ans.(a):	Kalaburagi, Orvakal (Kurnool), Shindhudurg, Itanagur,
• Fig pollination is a unique and complex process	Kushinagar and Mopa have been operationalised, out of which,
based on the interdependence between the fig tree	Kushinagar and Mopa airports are International airports.
and the closely related fig wasps. Fig are pollinated	• Donyi Polo Airport, Itanagar is the first greenfield airport has been developed in Arunachal Pradesh and
by wasps that belong to the order Hymenoptera,	was inaugurated by Prime Minister of India in 2022.
family Agonidae.	i and an additional of a finite formittee of finding in 2022.

• Kushinagar International Airport, is a greenfield	sun and the places beyond the Arctic circle experience
airport, was inaugurated by Prime Minister of India	continuous daylight for about six months. Since a large
in October, 2021.	portion of the Northern Hemisphere is getting light from
• Vijaywada International Airport is not a greenfield	the sun, it is summer in the regions north of the equator.
project.	The longest day and the shortest night at these places
1 5	occur on 21 st June.
82. With reference to "water vapour", which of	86. One of the following regions has the world's
the following statements is/are correct?	8 8
1. It is a gas, the amount of which decreases	largest tropical peatland, which holds about
with altitude.	three years worth of global carbon emissions
2. Its percentage is maximum at the poles.	from fossil fuels; and the possible destruction
Select the answer using the code given below:	of which can exert detrimental effet on the
(a) 1 only (b) 2 only	global climate. Which one of the following
(c) Both 1 and 2 (d) Neither 1 nor 2	denotes that region?
Ans.(a): Water vapour is a variable gas in the	(a) Amazon Basin (b) Congo Basin
atmosphere which decreases with altitude.	(c) Kikori Basin (d) Rio de la Plata Basin
• Water vapour decreases from the equator towards the	Ans.(b): The Congo Basin is name to the World's
poles. In the warm and wet tropics, it may account	largest tropical peatlands. The peat swamp forest of the
for 4% of the air by volume, while in the dry and	Congo Basin stores arround 29 billion tons of carbon-
cold areas of desert and polar regions, it may be less	approximately equivalent to three years' Worth of
than 1% of the air.	
	global greenhouse gas emissions-while the Basin as a
83. Consider the following description:	whole absorbs nearly 1.5 billion tons of CO_2 a year. The
1. Annual and daily range of temperature is low.	Basin stretches across six countries–Cameroon, Central
2. Precipitation occurs throughout the year.	African Republic, Democratic Republic of the Congo,
3. Precipitation varies between 50cm-250 cm.	Congo, Equatorial Guinea and Gabon. The Congo Basin
What is this type of climate?	is one of the world's last regions that absorbs more
(a) Equatorial climate	carbon than it emits. It possible destruction can have
(b) China type climate	detrimental effect on the global climate.
(c) Humid subtropical climate	87. With reference to perfluoroalkyl and
(d) Marine West coast climate	polyfluoroalkyl substances (PFAS) that are
Ans.(d): Marine west coast climate is located poleward	
from the Mediterranean climate on the west coast of the	used in making many consumer products,
continents. The main areas are : North-Western Europe,	consider the following statements:
west coast of North America, North of California,	1. PFAS are found to be widespread in drinking
Southern Chile, Southern Australia and New Zealand. Due	water, food and food packaging materials.
to marine influence, the temperature is moderate and in	2. PFAS are not easily degraded in the
	environment.
winter, it is warmer than for its latitude. The mean temperature in summer months ranges from $15^{\circ} - 20^{\circ}$ C	3. Persistent exposures to PFAS can lead to
temperature in summer months ranges from $15^{\circ} - 20^{\circ}$ C	
temperature in summer months ranges from $15^{\circ} - 20^{\circ}$ C and in winter 4°-10°C. The annual and daily ranges of	3. Persistent exposures to PFAS can lead to bioaccumulation in animal bodies.
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 Ans.(c): The Fabaceae or Leguminosae, known as the legume, pea or bean family. Groundnut, Horse-gram and Soybean are belongs to Fabaceae (or Leguminosae), Groundnut is the only nut that grows under the ground. These peas are excellent in nutritional and remedial properties. 90. Consider the following statements: Statement-I: The Indian Flying Fox is placed under the "vermin" category in the Wild Life (Protection) Act, 1972. Statement-II : The Indian Flying Fox feeds on the blood of other animals. Which one of the following is correct in respect of the above statement? (a) Both Statement-I and Statement-II are correct and Statement-II explains Statement-II are correct, but Statement-II does not explain Statement-I 	 92. Consider the following statements: Statement-I: Thickness of the troposphere at the equator is much greater as compared to poles. Statement-II: At the equator, heat is transported to great heights by strong conventional currents. Which one of the following is correct in respect of the above statements? (a) Both Statement-I and Statement-II are correct and Statement-II explains Statement-II are correct and Statement-II explains Statement-II (b) Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I (c) Statement-I is correct, but Statement-II is incorrect (d) Statement-I is incorrect, but Statement-II is correct Ans. (a): Due to variation in temperature and density of the air at different latitudes, the thickness of the troposphere is more at equator and thinest at the poles.
 (c) Statement-I is correct, but Statement-II is incorrect (d) Statement-I is incorrect, but Statement-II is correct 	• At the equator, the intense solar heating causes strong convectional currents. These currents transport heat to great heights, contributing to the greater thickness of the troposphere in this region.
 Ans.(c): The vector and fruit-eating flying fox (pteropus giganteus) is considered as vermin category, has placed in the Wild Life Act, 1972 in high degree protection. Indian flying foxes were also called the great Indian fruit bats, as it eats fruits and feeding on the juice. Indian flying foxes help in seed-dispersion and pollination, making them an integral part of the 	 93. Consider the following: Pyroclastic debris Ash and dust Nitrogen compounds Sulphur compounds How many of the above are products of volcanic eruptions? (a) Only one (b) Only one (c) Only three (d) All four
 91. Consider the following statements: Statement-I: The atmosphere is heated more by incoming solar radiation than by terrestrial radiation. Statement-II: Carbon dioxide and other greenhouse gases in the atmosphere and good absorbers of long wave radiation. Which one of the following is correct in respect of the above statements? (a) Both Statement-I and Statement-II are correct and Statement-II explains Statement-II are correct, but Statement-II does not explain 	 Ans. (d): Volcano is a rupture in the crust of a planetary mass object, such as earth that allows hot lava, volcanic ash, and gases to escape from a magma chamber below the surface. The material that reaches the ground includes lava flows, <u>Pyroclastic debris</u>, volcanic bomb, <u>ash and dust</u> and gases such as <u>nitrogen compounds</u>, <u>Sulphur compounds</u> and minor amount of chlorine, hydrogen
Statement-I (c) Statement-I is correct, but Statement-II is incorrect (d) Statement-I is incorrect, but Statement-II is correct Ans. (d) : • Heat energy that earth radiates is known as	 The isotherms deviate to the north over the ocean and to the south over the continent. The presence of cold ocean currents, Gulf Stream and North Atlantic Drift make the North Atlantic Ocean colder and the isotherms bend towards the north. Select the answer using the code given below:
 terrestrial radiation. Incoming Solar radiation through short waves known as Insolation. In Insolation, roughly 35 units are reflected back to the space before reaching the earth's surface. 27 units are reflected back from the top of clouds and 2 units from the ice covered area of earth. Reflected amount of radiation is known as albedo of the earth. 51 units are absorbed by earth's surface. 14 units are absorbed by atmosphere. The Earth radiate back 51 units in the form of terrestrial radiation. The long wave radiation is absorbers of long wave 	 (a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2 Ans. (a): Isotherms are Imaginary lines that connects points having same temperature at a given time or on average over given period. These lines are used in meteorology and climatology to represent temperature-distributions across geographical areas. In January the isotherms deviates to the north over the ocean and to the south over the continent. In presence of warm ocean currents, Gulf Stream and North Atlantic drift, makes the Northern Atlantic ocean
radiation.	warmer and the isotherms bend towords the north.

 (d) Madagascar and Mozambique (a) Only one (b) Only two (c) Conte d'Ivoire and Ghana are the two largest cocoa growing countries, accounting for nearly 60% of global cocoa production. (a) Cote d'Ivoire becomes largest producer of cocoa in Asia (b) Conte d'Ivoire becomes largest producer of cocoa in Asia (c) Cote d'Ivoire becomes largest producer of cocoa in Asia (d) Ghana, Indonesia, Nigeria and Equador. (e) Indonesia is the largest producer of cocoa in Asia (f) Matagascare to the Himalayan rivers joining the Ganga downstream of Prayagraj from West to East, which one of the following sequences is correct? (a) Ghaghara-Gomati-Gandak-Kosi (b) Gomati - Ghaghara-Gandak-Kosi (c) Ghaghara-Gomati-Kosi-Gandak (d) Gomati - Ghaghara-Gomati-Kosi-Gandak (d) Gomati - Ghaghara-Gomati-Kosi-Gandak (d) Gomati - Ghaghara-Gonadak-Kosi (e) Ganga river at Kaithi, Ghazipur. (f) Gangatara - It flows through minised valley, south warels through the districts of Sitapur, Lucknow, Barbanki, Sultanpur and Jaunpur before meeting the Ganga near Chhapra, Bihar. Gandak - The Gandak flows southeast 800 km across the Gangetio plain of Bihar state through West, Champaran, Gopalganj, East-Champaran, Saran, Vaishali districts. It Joins the Ganga near Patna just down stream of Hazipur at Sonpur. Kosi - The Koshi crosses into northern Bihar and joinnig the Ganga near Kursela in Kaithar district. 70. Consider the following statements: Statement-II: Rain Mater contains carbon dioxide in solution. Statement-II: Rain water contains carbon dioxide in solution. Statement-II: Rain su tore contains tamospheric oxyger. Which one of the following is correct in respect of the above statements? (a) Both Statement-II and Statement-III are cor	k in the ermany, with the rada narekha vati e given
 Ans. (b): Cote d'Ivoire and Ghana are the two largest cocoa growing countries, accounting for nearly 60% of global cocoa production. In 2022, will 22,00,000 million tonnes production of cocoa Cote d'Ivoire becomes largest producer followed by Ghana, Indonesia, Nigeria and Equador. Indonesia is the largest producer of cocoa in Asia. With reference to the Himalayan rivers joining the Ganga downstream of Prayagraj from West to East, which one of the following sequences is correct? (a) Ghaghara-Gomati-Gandak-Kosi (c) Ghaghara-Gomati-Kosi-Gandak (d) Gomati-Ghaghara-Gondak-Kosi (c) Ghaghara-Gomati-Kosi-Gandak (d) Gomati-Ghaghara-Kosi-Gandak (d) Bornation correctly matched? Ganabara - It flows through an incised valley south warels through the districts of Sitapur, Lucknow, Barabanki, Sultampur and Jaunpur before meeting the Ganga river at Kaithi, Ghazipur. Ganabara - It flows through Tibet, Nepal and India whese it joing river Ganga near Chhapra, Bihar. Gandak - The Gandak flows southeast 800 km across the Gangain, East-Champaran, Saran, Vaishali districts. It Joins the Ganga near Patna just down stream of Hazipur at Sonpur. Kosi - The Koshi crosses into northern Bihar and joining the Ganga near Kursel in Kathar district. Tom sitement-II: Rain water contains atmospheric oxygen. Which one of the following is correct in respect of the above statement! and Statement-III are correct and both of them explain Statement-III are correct and both of them explain Statement-III are correct and both of them explain Statement-III and Statement-III are correct and both of them explain Statement-III and Statement-III are correct and both of them explain Statement-III are correct and both of them explain Statement-III and Statement-III ar	k in the ermany, with the rada narekha vati e given
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correct and both of them explain Statement-I	
(b) Doth Statement in and Statement in are b. North America Abbaiachians Fold	tain
correct, but only one of them explains	tain
Statement-I 4. South America Andes Fold	tain
(c) Only one of the Statements-II and III is 4. South America Andes moun	tain
(1) Maithan Chatamani II and Chatamani III in 1000 mining of the uport for the	e given
information correctly matched.	
(a) Only one (b) Only two	
• Rainfall and temperature can affect the rate in which Ans. (b):	
rock weather. Greater rainfall increases the rate of Block mountains are created when large an	eas are
chemical weathering. Carbon dioxide from the air is dissolved in rain water	
• Carbon dioxide from the air is dissolved in rain water, making it slightly saiding A section can accur when the	
making it slightly acidic. A section can occur when the called graben. The vosges mountain is situ	ated in
rain water comes into contact with minerals in the rock, Europe (not in central Asia) is an example o	1 block
causing weathering. (hence statement - II is correct) mountain systems.	
• Oxygen is one of the most important element collected	
from falling rainwater. Dissolved oxygen is present in rugged relief and high conical peaks located in E	
all rainwater and surface supplies due to contact with . The Appalachians in North America is one	of the
atmosphere. (hence statement-III is correct) very old fold mountains in the world.	
From the above, we can say that both statement-II and Andes is one of the youngest fold mountains	1 . I
statement-III are correct and explain statement-I. in South America.	located