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Sl. Questions

- 1. Consider the following statements :
 - Ballistic missiles are jetpropelled at subsonic speeds throughout their flights, while cruise missiles are rocket powered only in the initial phase of flight.
 - Agni-V is a medium-range supersonic cruise missile, while BrahMos is a solidfuelled intercontinental ballistic missile.

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
- In case of which one of the following biogeochemical cycles,

the weathering of rocks is the main source of release of nutrient to enter the cycle?

- (a) Carbon cycle
- (b) Nitrogen cycle
- (c) Phosphorus cycle
- (d) Sulphur cycle
- 3. Consider the following statements:
 - Pursuant to the report of H.N. Sanyal Committee, the Contempt of Courts Act, 1971 was passed.
 - The Constitution of India empowers the Supreme Court and the High Courts to punish for contempt of themselves.



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 - The Constitution of India defines Civil Contempt and Criminal Contempt.

In India, the Parliament is vested with the powers to make laws on Contempt of Court. Which of the statements given above is/are correct ?

- (a) 1 and 2 only
- (b) 1, 3, and 4 only
- (c) 3 and 4 only
- (d) 3 only
- In the context of global oil prices,
 "Brent crude oil" is frequently
 referred to in the news. What does
 this term imply ?

1. It is a major classification of crude oil.

- 2. It is sourced from North sea.
- 3. It does not contain sulphur.
- Which of the statements given

- above is/ correct?
 - (a) 2 only
 - (b) 1 and 2 only
 - (c) 2 and 3 only
 - (d) 1, 2, and 3
- 5. Which of the following can aid in furthering the government's objective of inclusive growth?
 - 1. Promoting self-help groups.
 - 2. Promoting micro. Small and medium enterprises.
 - 3. Implementing the right to education act.

Select the correct answer using the codes given below:

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2, and 3 only
- 6. Which of the following is the chief characteristic of 'mixed farming'?
 - (a) Cultivation of both cash crops and food crops
 - (b) Cultivation of two or more crops in the same field



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 - (c) Rearing of animals and cultivation of crops together
 - (d) None of the above
- 7. "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) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2, and 3
- If you withdraw Rs. 1,00,000 in cash from your Demand Deposit Account at your bank, the immediate effect on aggregate money supply in the economy will

- be
- (a) to reduce it by Rs. 1,00,000

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- (b) to increase it by Rs. 1,00,000
- (c) to increase it by more than Rs. 1,00,000
- (d) to leave it unchanged
- 9. Consider the following:
 - 1. Battery storage
 - 2. Biomass generators
 - 3. Fuel cells
 - 4. Rooftop solar photovoltaic units

How many of the above are considered "Distributed Energy Resources"?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four
- 10. India maintained its early cultural contacts and trade links with



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Southeast Asia across the Bay of Bengal for this pre-eminence of early maritime history of Bay of Bengal which of the following would be the most convincing explanation/explanations?

- (a) As compared to other
 countries India had a better
 shipbuilding technology in
 ancient and medieval times.
- (b) The rules of southern India always patronised traders, Brahmin priest and Buddhist monks in in this context.
- (c) Monsoon winds across the Bay of Bengal facilitated sea voyages.
- (d) Both (a) and (b) are convincing explanations in this context.
- 11. With reference to green hydrogen, consider the following statements:
 - It can be used directly as a fuel for internal

combustion.

- 2. It can be blended with natural gas and used as fuel for heat or power generation.
- It can be used in the hydrogen fuel cell to run vehicles.

How many of the above statements are correct?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) None
- 12. Turkey is located between
 - (a) Black Sea and Caspian Sea
 - (b) Black Sea and Mediterranean Sea
 - (c) Gulf of Suez and Mediterranean Sea
 - (d) Gulf of Aqaba and Dead Sea
- 13. Which reference to Indian history, who among the following is a



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future Buddha, yet to come to save the world?

- (a) Avalokiteshvara
- (b) Lokesvara
- (c) Maityera
- (d) Padmapani

14.

The Trade Disputes Act of 1929 provided for

- (a) The participation of workers in the management of industries.
- (b) Arbitrary powers to the management to quell industrial disputes.
- (c) An intervention by the British Court in the event of a trade dispute.
- (d) A system of tribunals and a ban on strikes.
- 15. Which of the following activities constitute real sector in the economy?
 - 1. Farmers harvesting their

crops

2. Textile mills converting raw cotton into fabrics

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- A commercial bank lending money to a trading company
- A corporate body issuing Rupee Denominated Bonds overseas

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3, 4 only
- (c) 1, 3, and 4 only
- (d) 1, 2, 3, and 4
- 16. The Constitution (71st Amendment) Act, 1992 amends the Eighth Schedule to the Constitution to include which of the following languages?
 - 1. Konkani
 - 2. Manipuri
 - 3. Nepali
 - 4. Maithilis

Select the correct answer using the code given below:

(a) 1, 2, and 3 only



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- (b) 1, 2, and 4 only
- (c) 1, 3, and 4 only
- (d) 1, 2, 3, and 4
- 17. The fundamental object of Panchayati Raj system is to ensure which among the following?
 - People's participation in development.
 - 2. Political accountability
 - 3. Democratic decentralisation
 - 4. Financial mobilisation

Select the correct answer using the code given below:

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

In the first quarter of seventeenth

18. century, in which of the following was/were the factory/factories of the English East India Company located?

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- 1. Broach
- 2. Chicacole
- 3. Trichinopoly

Select the correct answer using the code given below.

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

^{19.} On 21st June, the Sun

- (a) Does not set below the horizon at the Arctic Circle.
- (b) Does not set below the horizon at Antarctic Circle.
- (c) Shines vertically overhead at noon on the Equator.
- (d) Shines vertically overhead at the Tropic of Capricorn.
- 20. In which one of the following regions was Dhanyakataka, which flourished as a prominent Buddhist centre under the



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Sir William Wedderburn and W.S.Caine had set up the Indian Parliamentary Committee in 1893?

- (a) To agitate for Indianpolitical reforms in theHouse of Commons
- (b) To campaign for the entry of Indians into the Imperial Judiciary
- (c) To facilitate a discussion on India's Independence in the British Parliament
- (d) To agitate for the entry of eminent Indians into the British Parliament
- With reference to furnace oil, consider the following statements:
 - 1. It is a product of oil refineries.
 - Some industries use it to generate power.
 - Its use causes Sulphur emissions into the

Mahasanghikas, located?

- (a) Andhra
- (b) Gandhara
- (c) Kalinga
- (d) Magadha
- 21. Consider the following statements :

1. St. Francis Xavier was one of the founding members of the Jesuit Order.

2. St. Francis Xavier died in Goa and a church is dedicated to him there.

3. The Feast of St. Francis Xavier is celebrated in Goa each year.

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

22. What was the purpose with which





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environment.

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

24. Microbial fuel cells are considered a source of sustainable energy. Why?

> 1. They use living organisms as catalysts to generate electricity from certain substrates.

2. They use a variety of inorganic materials as substrates.

3. They can be installed in waste water treatment plants to cleanse water and produce electricity.

Which of the statements given above is/ are correct?

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

- 25. In the context of any country, which one of the following would be considered as part of its social capital?
 - (a) The proportion of literates in the population.
 - (b) The stock of its buildings, other infrastructure and machines.
 - (c) The size of population in the working age group.
 - (d) The level of mutual trust and harmony in the society.
 - (a) 1 only
 - (b) 2 and 3 only
 - (c) 1 and 3 only
 - (d) 1, 2, and 3
- 26. Consider the following statements in respect of the Constitution Day:

Statement-I: Constitution Day is celebrated on 26th November every year to promote constitutional values among citizens.

Statement-II: 26th November 1949, the



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Constituent Assembly of India set up a Drafting Committee under the Chairmanship of Dr. B. R. Ambedkar to prepare a Draft Constitution of India.

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

- (a) Both Statement-I and Statement-II are correct and Statement-1 is the correct explanation for Statement-I.
- (b) Both Statement-I and Statement-11 are correct and Statement-II is not the correct explanation for Statement-I.
- (c) Statement-1 is correct but Statement-II is incorrect.
- (d) Statement-I is incorrect but Statement-II is correct.

27. Consider the following statements:

1. High clouds primarily reflect solar radiation and cool the surface of the Earth.

2. Low clouds have a high absorption of infrared radiation emanating from the Earth s surface and thus cause warming effect.

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
- 28.

With reference to the cultural history of India, which one of the following is the correct description of the term 'paramitas'?

- (a) The earliest Dharmashastra texts written in aphoristic (sutra) style
- (b) Philosophical schools that



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did not accept the authority of Vedas.

- (c) Perfections whose attainment led to the Bodhisattva path
- (d) Powerful merchant guilds of early Medieval South India
- 29. Consider the following crops of India:
 - 1. Cowpea
 - 2. Green gram
 - 3. Pigeon pea

Which of the statements is/are used as pulse, fodder and green manure?

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

30. Consider the following pairs

River - Flows into

1. Mekong — Andaman Sea

- 2. Thames Irish Sea
- 3. Volga Caspian Sea
- 4. Zambezi Indian Ocean

Which of the pairs given above is/are correctly matched?

- (a) 1 and 2 only
- (b) 3 only
- (c) 3 and 4 only
- (d) 1, 2, and 4 only
- 31. In India, which of the following can be considered as public investment in agriculture?
 - Fixing Minimum Support Price for agriculture produce of all crops.
 - 2. Computerization of Primary Agriculture Credit Societies.
 - 3. Social Capital development.
 - 4. Free electricity supply of farmers.
 - Waiver of agriculture loans by the banking system.
 - Setting up of cold storage facilities by the



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governments.

Select the correct answer using the code given below:

- (a) 1, 2 and 5 only
- (b) 1,3, 4 and 5 only
- (c) 2, 3 and 6 only
- (d) 1, 2, 3,4, 5 and 6

32. Consider the following statements:

- 1. India has more arable area than China.
- 2. The proportion of irrigated area is more in India as compared to China.
- The average productivity per hectare in Indian agriculture is higher than that in China.

How many of the above statements are correct?

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

- 33. Consider the following materials:
 - 1. Agricultural residues
 - 2. Corn grain
 - 3. Wastewater treatment sludge
 - 4. Wood mill waste

Which of the above can be used as feedstock for producing Sustainable Aviation Fuel?

- (a) 1 and 2 only
- (b) 3 and 4 only
- (c) 1, 2, 3 and 4
- (d) 1, 3, and 4 only
- 34. Microbial fuel cells are considered a source of sustainable energy. Why?

1. They use living organisms as catalysts to generate electricity from certain substrates.

2. They use a variety of inorganic materials as substrates.

3. They can be installed in waste water treatment plants to cleanse water and produce electricity.



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Which of the statements given above is/ are correct?

- (a) 1 only
- (b) 2 and 3only
- (c) 1 and 3 only
- (d) 1, 2, and 3
- 35. Consider the following rivers:
 - 1. Barak
 - 2. Lohit
 - 3. Subansiri

Which of the above flows/flow through Arunachal Pradesh?

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

36. Consider the following airports:

- 1. Donyi Polo Airport
- 2. Kushinagar International Airport
- Vijayawada International Airport

In the recent past, which of the above have been constructed as

Greenfield Projects?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3
- 37. Which of the following kingdoms were associated with the life of the Buddha?
 - 1. Avanti
 - 2. Gandhara
 - 3. Kosala
 - 4. Magadha

Select the correct answer using the codes given below.

- (a) 1, 2, and 3 only
- (b) 2 and 3 only
- (c) 1, 3, and 4 only
- (d) 3 and 4 only
- 38. With reference to ancient India, Gautama Buddha was generally known by which of the following epithets?
 - 1. Nayaputta
 - 2. Shakyamuni



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 - 3. Tathagata

Select the correct answer using the code given below:

- (a) 1 only
- (b) 2 and 3 only
- (c) 1, 2, and 3
- (d) None of the above are epithets of Gautama Buddha
- 39. According to the Constitution of India, it is the duty of the President of India to cause to be laid before the Parliament which of the following?
 - 1. The Recommendation of the Union Finance Commission.
 - 2. The Report of the Public Accounts Committee.
 - The Report of the Comptroller and Auditor General.
 - The Report of the National Commission for Scheduled Castes.

Select the correct answer using

the codes given below:

- (a) 1 only
- (b) 2 and 4 only
- (c) 1, 3 and 4 only
- (d) 1, 2, 3, and 4
- 40. With reference to 'Pradhan Mantri Fasal Bima Yojana', consider the following statements:
 - Under this scheme, farmers will have to pay a uniform premium of two percent for any crop they cultivate in any season of the year.
 - 2. This scheme covers postharvest losses arising out of cyclones and unseasonal rains.

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

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41. Consider the following statements:

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- Petroleum and Natural Gas Regulatory Board (PNGRB) is the first regulatory body set up by the Government of India.
- One of the tasks of PNGRB is to ensure competitive markets for gas.
- Appeals against the decisions of PNGRB go before the Appellate Tribunals for Electricity.

Which one of the statements given above is correct?

- 42. What is the use of biochar in farming?
 - Biochar can be used as a part of the growing medium in vertical farming.
 - 2. When biochar is a part of the growing medium, it promotes the growth of nitrogen-fixing microorganisms.
 - When biochar is a part of the growing medium, it enables the growing

medium to retain water for longer time.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 2 and 3 only
- (d) 1, 2, and 3 only
- Bollgard I and Bollgard II technologies are mentioned in the context of
 - (a) clonal propagation of crop plants
 - (b) developing genetically modified crop plants
 - (c) production of plant growth substances
 - (d) production of biofertilizers
- 44. The term "Levant" often heard in the news roughly corresponds to which of the following regions?

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- (a) Region along the eastern
 - Mediterranean shores
 - (b) Region along North African shores stretching from Egypt to Morocco
 - (c) Region along Persian Gulf and Horn of Africa
 - (d) The entire coastal areas of Mediterranean Sea
- 45. Consider the following statements:
 - The Global Ocean Commission grants licenses for seabed exploration and mining in international waters.
 - India has received licenses for seabed mineral exploration in international waters.
 - 'Rare earth minerals' are present on the seafloor in international waters.

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
- 46. Which of the following countries are well known as the two largest cocoa producers in the world?
 - (a) Algeria and Morocco
 - (b) Botswana and Namibia
 - (c) Côte d'Ivoire and Ghana
 - (d) Madagascar and Mozambique
- 47. Consider the following:
 - 1. Areca nut
 - 2. Barley
 - 3. Coffee
 - 4. Finger millet
 - 5. Groundnut
 - 6. Sesamum
 - 7. Turmeric

The Cabinet Committee on Economic Affairs has announced the Minimum Support Price for which of the above?



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 - (a) 1, 2, 3 and 7 only
 - (b) 2, 4, 5 and 6 only
 - (c) 1, 3, 4, 5 and 6 only
 - (d) 1, 2, 3, 4, 5, 6 and 7
- 48. The Preamble to the Constitution of India is
 - (a) a part of the Constitution but has no legal effect
 - (b) not a part of theConstitution and has nolegal effect either
 - (c) a part of the Constitution and has the same legal effect as any other part
 - (d) a part of the Constitutionbut has no legal effectindependently of other parts
- 49.

Under which Schedule of the Constitution of India can the transfer of tribal land to private parties for mining be declared null and void?

- (a) Third Schedule
- (b) Fifth Schedule
- (c) Ninth Schedule
- (d) Twelfth Schedule
- 50.
- India maintained its early cultural contacts and trade links with Southeast Asia across the Bay of Bengal for this pre-eminence of early maritime history of Bay of Bengal which of the following would be the most convincing explanation/explanations?
 - (a) As compared to other countries India had a better shipbuilding technology in ancient and medieval times.
 - (b) The rules of southern India always patronised traders, Brahmin priest and Buddhist monks in in this context.
 - (c) Monsoon winds across the Bay of Bengal facilitated sea voyages.
 - (d) Both (a) and (b) are convincing explanations in



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this context.

- 51. Which of the following statements are correct about the Constitution of India?
 - Powers of the Municipalities are given in **Part IX A** of the Constitution.
 - Emergency provisions are given in **Part XVIII** of the Constitution.
 - Provisions related to the amendment of the Constitution are given in

Part XX of the

Constitution.

Select the 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

52. Who of the following founded a new city on the South Bank of a tributary river Krishna and undertook to rule his new Kingdom as the agent to whom all the land South of the river Krishna was supposed to belong?

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- (a) Amoghavarsha I
- (b) Ballala II
- (c) Harihara I
- (d) Prataparudra I

Consider the following statements

- 53. regarding the National Florence Nightingale Award:
 - The award is named after Florence Nightingale, who is known for her pioneering work during the Crimean War.
 - The award was instituted in 1973 by the Ministry of Health and Family Welfare, Government of India.
 - Only nurses working in India are eligible for this award.
 - The award is presented to individuals who demonstrate excellence in nursing research, education, and



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administration, apart from patient care.

Which of the statements given above are correct?

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

54. Which one of the following best defines the term 'State'?

- (a) A community of persons permanently occupying a definite territory independent of external control and possessing an organized government
- (b) A politically organized people of a definite territory and possessing an authority to govern them, maintain law and order, protect their natural rights and safeguard their means of sustenance
- (c) A number of persons who have been living in a

definite territory for a very long time with their own culture, tradition and government

- (d) A society permanently living in a definite territory with a central authority, an executive responsible to the central authority and an independent judiciary
- 55. Consider the following plants:
 - 1. Groundnut
 - 2. Horse-gram
 - 3. Soybean

How many of the above belong to the pea family?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) None
- 56. What is the difference between asteroids and comets?
 1. Asteroids are small rocky planetoids, while comets are



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formed of frozen gases held together by rocky and metallic material.

2. Asteroids are found mostly between the orbits of Jupiter and Mars, while comets are found mostly between Venus and Mercury.

3. Comets show a perceptible glowing tail, while asteroids do not.

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

57. Which of the following are detritivores?

- 1. Earthworms
- 2. Jellyfish
- 3. Millipedes
- 4. Seahorses
- 5. Woodlice

Select the correct answer using

the code given below:

- (a) 2, 3, 4 and 5 only
- (b) 1, 3 and 5 only
- (c) 1, 2, 3, 4 and 5
- (d) 1, 2 and 4 only
- 58. With reference to ancient South India, Korkai, Poompuhar and Muchiri were well known as:
 - (a) capital cities
 - (b) ports
 - (c) centres of iron-and-steel making
 - (d) shrines of Jain Tirthankaras
- 59. Consider the following statements:
 - The nation-wide 'Soil Health Card Scheme' aims at expanding the cultivable area under irrigation.
 - Enabling the banks to assess the quantum of loans to be granted to farmers on the basis of soil quality.
 - Checking the overuse of fertilizers in farmlands.



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Which of the above statements is/are correct?

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

60. Consider the following statements:

- Biodivesity is normally greater in the lower latitudes as compared to the higher latitudes.
- Along the mountain gradients, biodiversity is normally greater in the lower altitudes as compared to the higher altitudes.

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

61. Which one of the following is the

correct sequence of a food chain?

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- (a) Diatoms-Crustaceans -Herrings
- (b) Crustaceans Diatoms -Herrings
- (c) Diatoms-Herrings -Crustaceans
- (d) Crustaceans Herrings -Diatoms
- 62. Consider the following statements regarding VL-SRSAM:
 - The VL-SRSAM is designed to intercept and neutralize aerial threats such as enemy fighter jets and missiles.
 - It can only be deployed on land-based systems.
 - The missile has a strike range of approximately 40-50 kilometers.
 - VL-SRSAM features a vertical launch mechanism that ensures quick and precise interception.

Which of the above statements are



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correct?

- (a) 1 and 2 only
- (b) 1, 3, and 4 only
- (c) 2 and 4 only
- (d) 1, 2, 3, and 4
- 63. The Chinese traveller Yuan Chwang (Hiuen Tsang) who visited India recorded the general conditions and culture of India at that time. In this context, which of the following statements is/are correct?
 - The roads and river-routes were completely immune from robbery.
 - 2. As regards punishment for offences, ordeals by fire, water and poison were the instruments for determining the innocence or guilt of a person.
 - The tradesmen had to pay duties at ferries and barrier stations.

Select the correct answer using the codes given below:

- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2, and 3
- 64. With reference to the cultural history of India, the memorising of chronicles, dynastic histories and epic tales was the profession of who of the following?
 - (a) Shramana
 - (b) Parivraajaka
 - (c) Agrahaarika
 - (d) Magadha
- 65. In case of which one of the following biogeochemical cycles, the weathering of rocks is the main source of release of nutrient to enter the cycle?
 - (a) carbon cycle
 - (b) Nitrogen cycle
 - (c) Phosphorus Cycle
 - (d) Sulphur Cycle
- 66. Which one of the following statements about Sangam literature in ancient South India is

(a) 1 only



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correct?

- (a) Sangam poems are devoid of any reference to material culture.
- (b) The social classification of Varna was known to Sangam poets.
- (c) Sangam poems have no references to warrior ethic.
- (d) Sangam literature refers to magical forces as irrational.
- 67. Which one of the following shows a unique relationship with an insect that has coevolved with it and that is the only insect that can pollinate this tree?
 - (a) Fig
 - (b) Mahua
 - (c) Sandalwood
 - (d) Silk cotton

68. How does the National Rural Livelihood Mission seek to improve livelihood options of rural poor?

> By setting up a large number of new

manufacturing industries and agribusiness centres in rural areas.

- By strengthening 'self-help groups' and providing skill development.
- By supplying seeds, fertilizers, diesel pump- sets and micro-irrigation equipment free of cost to farmers.

Select the correct answer using the codes given below:

- (a) 1 and 2 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 1, 2, and 3
- 69. With reference to scientific progress of ancient India, which of the statements given below are correct?
 - Different kinds of specialised surgical instruments were in common use by 1st century



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- 2. Transplant of internal organs in the human body had begun by the beginning of 3rd century A.D.
- The concept of sine of an angle was known in 5th century A.D.
- The concept of cyclic quadrilaterals was known in 7th century A.D.

Select the correct answer using the codes given below:

- (a) 1 and 2 only
- (b) 3 and 4 only
- (c) 1, 3, and 4 only
- (d) 1, 2, 3, and 4 only
- 70. Certain species of which one of the following organisms are well known as cultivators of fungi?
 - (a) Ant
 - (b) Cockroach
 - (c) Crab
 - (d) Spider

- 71. In the context of vaccines manufactured to prevent COVID-19 pandemic, consider the following statements:
 - The Serum Institute of India produced COVID-19 vaccine named Covishield using mRNA platform.
 - Sputnik V vaccine is manufactured using vectorbased 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 only
- 72. Consider the following kinds of organism:
 - 1. Bacteria
 - 2. Fungi



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 Flowering plants
 Some species of which of the above kinds of organisms are employed as biopesticides?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3 only
- 73. With reference to Scheduled Areas in India, consider the following statements:
 - Within a State, the notification of an area as Scheduled Area takes place through an Order of the President.
 - 2. The largest administrative unit forming the Scheduled Area is the District and the lowest is the cluster of villages in the Block.
 - The Chief Ministers of the concerned States are required to submit annual reports to the Union Home Ministry on the

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administration of Scheduled Areas in the States. How many of the above statements are correct?

- 74. Which of the following statements regarding the PM Surya Ghar scheme is/are accurate?
 - The scheme offers a central subsidy for solar rooftop systems installed in both residential and commercial sectors.
 - The eligibility for the scheme includes households with an annual income below Rs. 5 lakhs, provided they do not have any other solar installations.
 - The scheme aims to cover 20% of the total cost of the solar rooftop installation, with additional state-level incentives possible.

Select the correct answer using



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the code below:

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2, and 3
- 75. Mycorrhizal biotechnology has been used in rehabilitating degraded sites because mycorrhiza enables the plants to
 - 1. Resist drought and increase absorptive area
 - 2. Tolerate extremes of pH
 - 3. Resist disease infestation Select the correct answer using the codes given below:
 - (a) 1 only
 (b) 2 and 3 only
 (c) 1 and 3 only
 (d) 1, 2, and 3
- 76. Between India and East Asia, the navigation-time and distance can be greatly reduced by which of the following?
 - 1. Deepeing the Malacca

straits between Malaysia and Indonesia.

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2. Opening a new canal across the Kra isthmus between the Gulf of Siam and Andaman Sea.

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
- 77. Rainbow is produced when sunlight falls on drops of rain.Which of the following physical phenomena are responsible for this?
 - 1. Dispersion
 - 2. Refraction
 - 3. Internal reflection

Select the correct answer using the codes given below:

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



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

78. Consider the following pairs:

	Area of conflict mentioned in news	Country where it is located
1.	Donbas	Syria
2.	Kachin	Ethiopia
3.	Tigray	North Yemen

How many of the above pairs are correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) None
- 79. What is the application of Somatic Cell Nuclear Transfer Technology?

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(a) Production of biolarvicides

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- (b) Manufacture of biodegradable plastics
- (c) Reproductive cloning of animals
- (d) Production of organisms free of diseases
- 80. What is the correct sequence of occurrence of the following cities in South-East Asia as one proceeds from south to north?
 - 1. Bangkok
 - 2. Hanoi
 - 3. Jakarta
 - 4. Singapore

Select the correct answer using the code given below:

- (a) 4--2--1--3
 (b) 3--2--4--1
 (c) 3--4--1--2
 (d) 4--3--2--1
- 81. Which one of the following countries of South-West Asia does not open out to the Mediterranean Sea?

(a) Syria



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 - (b) Jordan
 - (c) Lebanon
 - (d) Israel
- 82. Consider the following actions:
 - 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
 - Detection of the tit of smartphone which results in the rotation of display between portrait and landscape mode.

In how many of the above action is the function of accelerometer required?

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

- 83. In a given year in India, official poverty lines are higher in some States than in other because
 - (a) Poverty rates vary from State to State
 - (b) Price levels vary from State to State
 - (c) Gross State Product varies from State to State
 - (d) Quality of publicdistribution varies fromStates to States
- 84. Which one of the following is a reason why astronomical distances are measured in light-years?
 - (a) Distances among stellar bodies do not change.
 - (b) Gravity of stellar bodies does not change.
 - (c) Light always travels in straight line.
 - (d) Speed of light is always same.



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- 85. 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) Only three
- (d) All four
- 86. With reference to Corporate Social Responsibility (CSR) rules in India, consider the following statements:
 - CSR rules specify that expenditures that benefit the company directly or its employees will not be considered as CSR activities.
 - 2. CSR rules do not specify

minimum spending on CSR activities. Which of the statements given

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above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 87. The experiment will employ a trio of spacecraft flying in formation in the shape of an equilateral triangle that has sides one million kilometers long, with lasers shining between the craft."
 The experiment in question refers to
 - (a) Voyager 2
 - (b) New Horizons
 - (c) LISA Pathfinder
 - (d) Evolved LISA
- 88. With reference to the Indian economy, consider the following statements:

If the inflation is too high,
 Reserve Bank of India (RBI) is



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likely to buy governmentsecurities.2. If the rupee is rapidly

depreciating, RBI is likely to sell dollars in the market.

3. If interest rates in the USA or European Union were to fall, that is likely to induce RBI to buy dollars.

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
- 89. With reference to agricultural soils, consider the following statements:
 - A high content of organic matter in soil drastically reduces its water holding capacity.
 - 2. Soil does not play any role

in the sulphur cycle.

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 Irrigation over a period of time can contribute to the salinization of some agricultural lands.

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
- 90. With reference to 'Software as a Service (SaaS)', consider the following statements:
 - SaaS buyers can customise the user interface and can change data fields.
 - 2. SaaS users can access their data through their mobile devices.
 - Outlook, Hotmail and Yahoo! Mail are forms of SaaS.

Which of the statements given



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above are correct?

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

91. Consider the following statements:

Statement-I: India's public sector health care system largely focuses on curative care with limited preventive, promotive and rehabilitative care.

Statement-II: Under India's decentralized approach to healthcare delivery, the States are primarily responsible for organizing health services.

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

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

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Statement- II is the correct explanation for Statement- I

- (b) Both Statement-I and Statement-II are correct and Statement-II- 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
- 92. The total fertility rate in an economy is defined as:
 - (a) the number of children born per 1000 People in the Population in a year.
 - (b) the number of children born to couple in their lifetime in a given population.
 - (c) the birth rate minus death rate.
 - (d) the average number of live births a woman would have by the end of her childbearing age.



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93. With reference to the circumstances in Indian agriculture, the concept of "Conservation Agriculture" assumes significance"

> Which of the following fall under the Conservation Agriculture?

1. Avoiding the monoculture practices

2. Adopting minimum tillage

3. Avoiding the cultivation of plantation crops

4. Using crop residues to cover soil surface

5. Adopting spatial and temporal crop sequencing/crop rotations

Select the correct answer using the code given below:

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

(d) 1, 2, 3 and 5

94.

At present, scientists can determine the arrangements or relative position of genes of DNA sequences on a chromosome. How does this knowledge benefit us?

- 1. It is possible to know the pedigree of livestock.
- 2. It is possible to understand the causes of all human diseases.
- It is possible to develop disease resistant animal breeds.

Which of the statements given above is/ are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 1, 2, and 3
- 95. With reference to physical capital in Indian economy, consider the following pairs:



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		[]
Sl .n o	Items	Category
1.	Farmer's plough	Working capital
2.	Computer	Fixed capital
3.	Yarn used by the weaver	Fixed capital
4.	Petrol	Working capital

How many of the above pairs are correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four
- 96. Consider the following statements regarding the PM Surya Ghar Muft

Bijli Yojana:

- The scheme provides free electricity up to 300 units per month for households installing rooftop solar systems.
- A subsidy of 40% is provided for the first 3 kW capacity of the solar system.
- The scheme is expected to result in significant CO2 emissions reduction over the 25-year lifetime of rooftop systems.

Which of the statements given above is/are correct?

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

97. Consider the following statements:

 Genetic changes can be introduced in the cells that produce eggs or sperms of a



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prospective parent.

- A person's genome can be edited before birth at the early embryonic stage.
- Human induced pluripotent stem cells can be injected into the embryo of a pig.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 2 only
- (d) 1, 2, and 3
- 98. With reference to the Indian economy, consider the following statements:
 - A share of the household financial savings goes towards government borrowings.
 - Dated securities issued at market-related rates in auctions form a large component of internal debt.
 Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 99.

'SWAYAM', an initiative of the Government of India, aims at

- (a) promoting the Self Help Groups in rural areas
- (b) providing financial and technical assistance to young start-up entrepreneurs
- (c) promoting the education and health of adolescent girls
- (d) providing affordable and quality education to the citizens for free
- 100 Consider the following crops:
 - 1. Cotton
 - 2. Groundnut
 - 3. Rice



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4. Wheat

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Which of these are Kharif crops?

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

101

Consider the following statements in the context interventions being undertaken under Anaemin Mukt Bharat Strategy:

- It provides prophylactic calcium supplementation for pre-school children, adolescents and pregnant women.
- It runs a campaign for delayed cord clamping at the time of child-birth.
- It provides for periodic deworming to children and adolescents.
- 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

102 In India, which of the following . can trade in Corporate Bonds and Government Securities?

- 1. Insurance Companies
- 2. Pension Funds
- 3. Retail Investors

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
- 103 Consider the following statements:
 - Carbon fibres are used in the manufacture of components used in



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automobiles and aircrafts.

2. Carbon fibres once used cannot be recycled.

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

104 Water can dissolve more substances than any other liquid because

- (a) it is dipolar in nature
- (b) it is a good conductor of heat
- (c) it has high value of specific heat
- (d) it is an oxide of hydrogen

105 Consider the following minerals;

- 1. Calcium
- 2. Iron
- 3. Sodium

Which of the minerals given above is/are required by human body for

the contraction of muscles?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2, and 3
- 106 Which one of the following situations best reflects "Indirect . Transfers" often talked about in media recently with reference to India?
 - (a) An Indian company

 investing in a foreign
 enterprise and paying taxes
 to the foreign country on
 the profits arising out of its
 investment
 - (b) A foreign company investing in India and paying taxes to the country of its base on the profits arising out of its investment
 - (c) An Indian company purchases tangible assets in a foreign country and sells such assets after their value increases and



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transfers the proceeds to India

- (d) A foreign company transfers shares and such shares derive their substantial value from assets located in India
- 107 The Prime Minister recently inaugurated the new Circuit . House near Somanath Temple at Verval. Which of the following statements are correct regarding Somnath Temple?
 - Somnath Temple is one of the Jyotirlinga shrines.
 - A description of Somnath Temple was given by Al-Biruni.
 - Pran Pratistha of Somnath Temple (installation of the present-day temple) was done by President S. Radhakrishnan.

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

Consider the following properties

- 108 included in the World Heritage Listreleased by UNESCO:
 - 1. Shantiniketan
 - 2. Rani-ki-Vav
 - Sacred Ensembles of the Hoysalas
 - Mahabodhi Temple
 Complex at Bodhgaya

How many of the above properties were included in 2023?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four
- 109 India has experienced persistent and high food inflation in the recent past. What could be the reasons?
 - Due to a gradual switchover to the cultivation of



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commercial crops, the area under the cultivation of food grains has steadily decreased in the last five years by about 30%.

- 2. As a consequence of increasing incomes, the consumption patterns of the people have undergone a significant change.
- 3. The food supply chain has structural constraints.

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
- 110 How do you distinguish between. Kuchipudi and Bharatanatyam dances?
 - Dancers occasionally speaking dialogues is found in Kuchipudi dance but not in Bharatanatyam.

 Dancing on the brass plate by keeping the feet on its edges is a feature of Bharatanatyam but Kuchipudi dance does not have such a form of movements.

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
- 111 Which of the following are. nitrogen-fixing plants?
 - 1. Alfalfa
 - 2. Amaranth
 - 3. Chickpea
 - 4. Clover
 - 5. Purslane (Kulfa)
 - 6. Spinach

Select the correct answer using the code given below:

(a) 1, 3 and 4 only



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 - (b) 1, 3, 5 and 6 only
 - (c) 2, 4, 5 and 6 only
 - (d) 1, 2, 4, 5 and 6
- 112 With reference to the election of the President of India, consider the following statements:
 - The value of the vote of each MLA varies from State to State.
 - The value of the vote of MPs of the Lok Sabha is more than the value of the vote of MPs of the Rajya 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

113 Consider the following animals:

- 1. Hedgehog
- 2. Marmot

3. Pangolin

To reduce the chance of being captured by predators, which of the above organisms rolls up/roll up and protects/ protect its/their vulnerable parts?

- (a) 1 and 2 only
- (b) 2 only
- (c) 3 only
- (d) 1 and 3
- 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 be included in the Electoral College.
 - Higher the number of elective Assembly seats, higher is the value of vote of each MLA of that State.



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 - The value of vote of each MLA of Madhya Pradesh is greater than that of Kerala.
 - 4. 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?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four
- 115 In the context of finance, the term 'beta' refers to
 - (a) the process of simultaneous
 buying and selling of an
 asset from different
 platforms
 - (b) an investment strategy of a portfolio manager to

balance risk versus reward

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- (c) a type of systemic risk that arises where perfect hedging is not possible
- (d) a numeric value that measures the fluctuations of a stock to changes in the overall stock market

116 Consider the following statements:

- 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.
- When a Bill is presented to the President of India, the

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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) Only three
- (d) None

117

Consider the following statements:

- No criminal proceedings shall be instituted against the Governor of a State in any court during his term of office.
- The emoluments and allowances of the Governor of a State shall not be diminished during his term of office.

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
- With reference to food chains in ecosystems, consider the following statements:
 - A food chain illustrates the order in which a chain of organism feed upon each other.
 - Food chains are found within the populations of a species.
 - A food chain illustrates the numbers of each organism which are eaten by others.

Which of the statement given above is / are correct?

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

119 Consider the following pairs

- 1. Garba: Gujarat
- 2. Mohiniyattam: Odisha



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 - 3. Yakshagana: Karnataka

Which of the pairs given above is/are correctly matched?

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

In the context of solving pollution
 problems, what is/are the
 advantage/advantages of
 bioremediation technique?

- It is a technique for cleaning up pollution by enhancing the same biodegradation process that occurs in nature.
- 2. Any contaminant with heavy metals such as cadmium and lead can be readily and completely treated by bioremediation using microorganisms.
- Genetic engineering can be used to create microorganisms specifically designed for bioremediation.

Select the correct answer using the code given below:

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2, and 3
- 121 With reference to India, consider the following statements:
 - There is only 'one citizenship and one domicile'.
 - 2. A citizen by birth only can become the Head of State.
 - A foreigner once granted citizenship cannot be deprived of it under any circumstances.

Which of the statements given above is/are correct?

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



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- 122 In the nature, which of the
 following is/are most likely to be found surviving on a surface without soil?
 - 1. Fern
 - 2. Litchen
 - 3. Moss
 - 4. Mushroom

Select the correct answer using the code given below

- (a) 1 and 4 only
- (b) 2 only
- (c) 2 and 3 only
- (d) 1, 3, and 4 only
- 123 "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.

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- (c) Wetlands play a vital role in maintaining sedimentation balance and soil stabilization.
- (d) Aquatic plants absorb heavy metals and excess nutrients.
- 124 In the context of any country,which one of the following would be considered as part of its social capital?
 - (a) The proportion of literates in the population.
 - (b) The stock of its buildings, other infrastructure and machines.
 - (c) The size of population in the working age group.
 - (d) The level of mutual trust and harmony in the society.

125 Consider the following statements

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pairs:

pans.		
Sl. no	Famous shrine	Locatio n
1.	Tabo monastery and temple complex	Spiti Valley
2.	Lhotsava Lhakhang temple, Nako	Zanska r Valley
3.	Alchi temple complex	Ladakh

Which of the pairs given above is/are correctly matched?

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

126 Which one of the following is synthesised in human body that dilate blood vessels and increases

blood flow?

- (a) Nitric oxide
- (b) Nitrous oxide
- (c) Nitrogen dioxide
- (d) Nitrogen Pentoxide
- ¹²⁷ Consider the following statements:
 - In the election for Lok Sabha or State Assembly, the winning candidate must get at least 50 percent of the votes polled, to be declared elected.
 - According to the provisions laid down in the Constitution of India, in Lok Sabha, the Speaker's post goes to the majority party and the Deputy Speaker's to the Opposition.

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



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- 128 For the measurement/estimation of which of the following are . satellite images/remote sensing data used?
 - Chlorophyll content in the vegetation of a specific location.
 - Greenhouse gas emissions from rice paddies of a specific location.
 - Land surface temperatures of a specific location.

Select the correct answer using the code given below:

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

Which of the following are the

129

most likely places to find the musk deer in its natural habitat?

- 1. Askot Wildlife Sanctuary
- 2. Gangotri National Park
- Kishanpur Wildlife Sanctuary

4. Manas National Park

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 and 4 only
- (d) 1 and 4
- 130 Which of the following can aid infurthering the government's objective of inclusive growth?
 - 1. Promoting self-help groups.
 - 2. Promoting micro small and medium enterprises.
 - 3. Implementing the right to education act.

Select the correct answer using the codes given below:

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2, and 3
- 131 Consider the following statements:
 - Union Territories are not represented in the Rajya Sabha.



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 - It is within the purview of the Chief Election Commissioner to adjudicate the election disputes.
 - According to the Constitution of India, the Parliament consists of the Lok Sabha and the Rajya Sabha only.

Which of the statements given above is/are correct?

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

132 Consider the following pairs:

	Country	Animal found in its natural habitat
1.	Brazil	Indri
2.	Indonesia	Elk
3.	Madagasc ar	Bonobo

How many of the pairs given above are correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) None
- 133 Consider the following statements:
 Statement-I: Giant stars live much longer than dwarf stars.
 Statement-II: Compared to dwarf stars, giant stars have a greater rate of nuclear reactions.
 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- II is not the correct explanation for



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Statement-I.

- (c) Statement I is correct but Statement II is incorrect
- (d) Statement I is incorrect but Statement II is correct
- 134 With reference to 'dugong', a mammal found in India, which of the following statements is/are correct?
 - 1. It is a herbivorous marine animal.
 - 2. It is found along the entire coast of India.
 - It is given legal protection under Schedule I of the Wildlife (Protection) Act, 1972.

Select the correct answer using the codes given below:

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

(d) 3 only

With reference to Deputy Speaker
135 of Lok Sabha, consider the
following statements:

- 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.
- There is a 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.
- 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.
- The well established parliamentary practice regarding the appointment of Deputy Speaker is that the motion is moved by the



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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

136

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.
- 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

Who of the following rulers of

¹³⁷ medieval India gave permission to

- the Portuguese to build a fort at Bhatkal?
 - (a) Krishnadevaraya
 - (b) Narasimha Saluva
 - (c) Muhammad Shah III
 - (d) Yusuf Adil Shah
- 138 With reference to two nonconventional energy sources called . 'coalbed methane' and 'shale gas', consider the following statements:
 - Coal bed methane is the pure methane gas extracted from coal seams, while shale gas is a mixture of propane and butane only that can be extracted from fine-grained sedimentary rocks.
 - In India, abundant coal bed methane sources exist, but so far no shale gas sources have been found.

Which of the statements given above is/are correct?

(a) 1 only



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 - (b) 2 only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2
- 139 Which of the following is/are theexclusive power(s) of Lok Sabha?
 - 1. To ratify the declaration of Emergency
 - 2. To pass a motion of noconfidence 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 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 3 only

140 Consider the followingstatements:

 In the revenue administration of Delhi Sultanate, the in-charge of revenue collection was known as 'Amil'.

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- 2. The Iqta system of Sultans of Delhi was an ancient indigenous institution.
- 3. The office of 'Mir Bakshi' came into existence.

During the reign of Khalji Sultans of Delhi. Which of the statements given above is/are correct?

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

Consider the following statements

- ¹⁴¹ about ISRO's proposed VenusOrbiter Mission:
 - The mission aims to study the atmosphere of Venus, including its dynamics and surface composition.
 - ISRO's Venus mission will be the first mission by any space agency to explore Venus.
 - 3. One of the key objectives of the mission is to study the



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interaction of the solar wind with Venus' atmosphere.

Which of the statements given above is/are correct?

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

142 With reference to furnace oil,. consider the following statements:

- 1. It is a product of oil refineries.
- 2. Some industries use it to generate power.
- Its use causes Sulphur emissions into the environment.

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

- 143 With reference to technologies for solar power production, consider
 . the following statements;
 - 'Photovoltaics' is a technology that generates electricity by direct conversion of light into electricity, while 'Solar Thermal' is a technology that utilizes the Sun's rays to generate heat which is further used in electricity generation process.
 - Photovoltaics generates
 Alternating Current (AC),
 while Solar Thermal
 generates Direct ' Current
 (DC).
 - India has manufacturing base for Solar Thermal technology, but not for Photovoltaics.

Which of the statements given above is/are correct?

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



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- (c) 1, 2, and 3
- (d) None

144 With reference to the FourteenthFinance Commission, which of the following statements is/are correct?

- It has increased the share of States in the central divisible pool from 32 percent to 42 percent.
- It has made recommendations concerning sector-specific grants.

Select the correct answer using the code given below:

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

145 With reference to Indian history,. consider the following statements:

 The first Mongol invasion of India happened during the reign of Jalal-ud-din Khalji.

- During the reign of Ala-uddin Khalji, one Mongol assault marched up to Delhi and besieged the city.
- Muhammad-bin-Tughlaq temporarily lost portions of north-west of his kingdom to Mongols.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 3 only
- 146 Consider the following statement:
 Statement I: Sumed pipeline is a strategic route for Persian Gulf oil and natural gas shipments to Europe.

Statement-II: Sumed pipeline connects the Red Sea with the Mediterranean Sea.

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



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 - (a) Both Statement-I and Statement-II are correct and Statement-II explains. 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
- 147 Who of the following founded a
 new city on the South Bank of a tributary river Krishna and undertook to rule his new Kingdom as the agent to whom all the land South of the river Krishna was supposed to belong?
 - (a) Amoghavarsha I
 - (b) Ballala II
 - (c) Harihara I
 - (d) Prataparudra I

148 One of the implications of equality

- in society is the absence of
 - (a) Privileges
 - (b) Restraints
 - (c) Competition
 - (d) Ideology
- 149 In the context of India, which of. the following is/are considered to be practice(s) of eco-friendly agriculture?
 - 1. Crop diversification
 - 2. Legume intensification
 - 3. Tensiometer use
 - 4. Vertical farming

Select the correct answer using the code given below:

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

150 Consider the following statements:

A Constitutional Government is one which



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 - Places effective restrictions on individual liberty in the interest of State Authority.
 - Places effective restrictions on the Authority of the State in the interest of individual liberty.

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
- 151 With reference to the history ofancient India, which of the following statements is/are correct?
 - Mitakshara was the civil law for upper castes and Dayabhaga was the civil law for lower castes.
 - 2. In the Mitakshara system, the sons can claim right to the property during the lifetime of the father, whereas in the Dayabhaga

system, it is only after the death of the father that the sons can claim right to the property.

3. The Mitakshara system deals with the matters related to the property held by male members only of a family, whereas the Dayabhaga system deals with the matters related to the property held by both male and female members of a family.

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 3 only
- 152 How is permaculture farmingdifferent from conventional chemical farming?
 - Permaculture farming discourages monocultural practical but in

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conventional chemical farming, monoculture practices are pre-dominant.

- 2. Conventional chemical farming can cause increase in soil salinity but the occurrence of such phenomenon is not observed in permaculture farming.
- Conventional chemical farming is easily possible in semi-arid regions but permaculture farming is not so easily possible in such regions.
- Practice of mulching is very important in permaculture farming but not necessarily so in conventional chemical farming.

Select the correct answer using the code given below.

- (a) 1 and 3 only
- (b) 1, 2 and 4 only

(c) 4 only

(d) 2 and 3 only

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 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.



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 - (c) Statement I is correct but Statement II is incorrect
 - (d) Statement I is incorrect but Statement II is correct
- 154 With reference to medieval India,which one of the following is the correct sequence in ascending order in terms of size?
 - (a) Paragana-Sarkar-Suba
 - (b) Sarkar-Paragana-Suba
 - (c) Suba-Sarkar-Paragana
 - (d) Paragana-Suba-Sarkar
- 155 In which of the following areas can. GPS technology be used?
 - 1. Mobile phone operations
 - 2. Banking operations
 - 3. Controlling the power grids

Select the correct answer using the code given below:

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

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S1.	Ans	EXPLANATIONS	
no.			
1.	D	Correct Option- D	
		1. Cruise missiles are jet-propelled at subsonic speeds	
		throughout their flights, while ballistic missiles are rocket -	
		powered only in the initial (boost) phase of flight, after which	
		they follow an arcing trajectory to the target. Hence, statement	
		1 is not correct.	
		2. Agni V is India's long-range surface-to-surface ballistic missile,	
		which can hit a target with a precision that is 5,000 km away.	
		The BrahMos is a supersonic cruise missile, developed by the	
		joint Russian-Indian BrahMos Aerospace company. Hence,	
		statement 2 is not correct.	
2.	С	• Phosphate rocks are the MAIN source of Phosphorus and it enters the cycle through weathering, erosion, leaching, mining etc.	
		Hence, option (c) Phosphorus cycle is the answer.	
3.	В	• Regarding contempt of court in India, Statement 1, 2 & 4 is	
		correct.	
		• The Contempt of Court Act, 1971 defines both civil and criminal	
		contempt and it is not defined in the Constitution of India.	
		Statement 3 is incorrect.	
		• Contempt of court protects judicial institutions from motivated	



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		attacks and unwarranted criticism, and it acts as a legal
		mechanism to punish those who lower its authority.
		Hence, option (b) 1, 2 and 4 is the answer.
4.	В	• Brent crude is the most traded of all of the oil benchmarks and
		is defined as crude mostly drilled from the North Sea oilfields.
		Statement 1 & 2 is correct.
		 It contains Sulphur. Statement 3 is incorrect.
		• It contains surprise. Statement o is incorrect.
		Hence, option (b) 1 and 2 only is the answer.
5.	D	1. Large number of Self Help Groups (SHGs) are working in India
		at the grass-roots level especially in rural India on the principles
		of mutual help, solidarity and joint responsibility. The more the
		Self Help Groups, the better the financial inclusion. Statement
		1 is correct.
		0 MSMEs are an important sector for the Indian secondary and
		2. MSMEs are an important sector for the Indian economy and
		have contributed immensely to the country's socio-economic
		development. It not only generates employment opportunities
		but also works hand-in-hand towards the development of the
		nation's backward and rural areas. It can help in financial
		inclusion. Statement 2 is correct.
		3. The RTE Act aims to provide primary education to all children
		aged 6 to 14 years. The act mandates 25% reservation for



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		disadvantaged sections of the society where disadvantaged
		groups include: SCs and STs. Education can help uplift the
		backward and downtrodden society. Statement 3 is correct.
		Hence, option D is the answer.
6	0	Option (a) defines a time of Appionitum
6.	С	Option (a) defines a type of Agriculture.
		Option (b) defines 'Mixed cropping'.
		Option (c) defines 'Mixed Farming'
		• Mixed farming is an agricultural practice that involves rearing of
		animals and cultivation of crops together on the same farm. It is
		characterized by the integration of crop production with
		livestock farming, where the animals and crops are managed in
		a complementary manner. The crops provide feed for the
		animals, while the animals provide manure for the crops. This
		system is often practiced in areas where landholding sizes are
		small and farmers need to maximize the use of their resources.
		Hence, option (c) is the answer.
7.		Orston of Dire Latencification (ODD) - Control 1 - 1
1.	D	System of Rice Intensification (SRI) was first developed in
		Madagascar in the 1980s and since then several countries in the
		world have been practising it, including India. It promises to



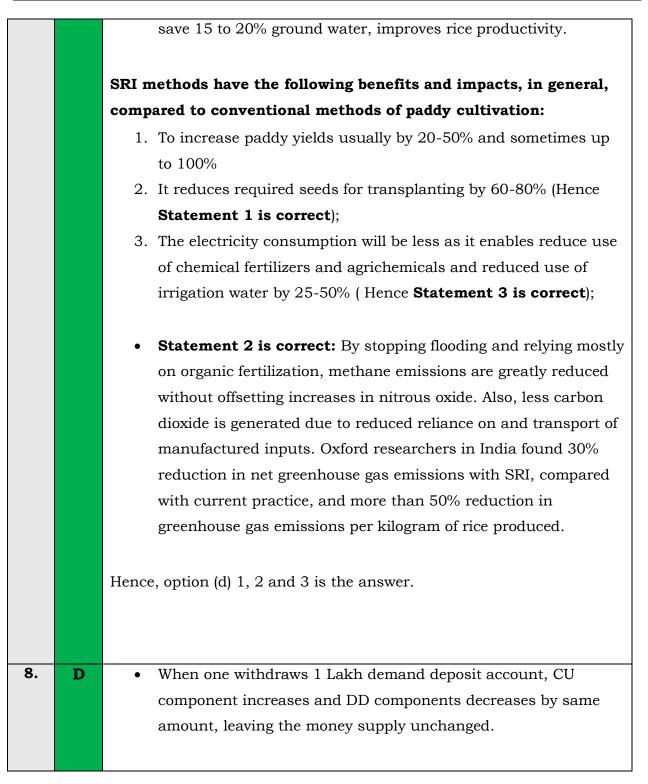
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	Hence, option (d) to leave it unchanged is the answer.	
9. D	• Distributed energy resources (DER) refers to often smaller	
	generation units that are located on the consumer's side of the	
	meter.	
	Examples of distributed energy resources that can be installed include:	
	1. Battery storage	
	2. Biomass generators, which are fuelled with waste gas or	
	industrial and agricultural by-products.	
	3. Fuel cells	
	4. Rooftop solar photovoltaic units.	
	• Other examples of DER include wind generating units, open and	
	closed cycle gas turbines, hydro and mini-hydro schemes etc.	
	Hence, option (d) is the answer.	
10. C	• The monsoon winds in the Indian Ocean was used by the sailing	
	ships to reach overseas countries for maritime trade it is	
	believed that Hippalus discovered monsoon wind in the first	
	century. The flow of wind and current was favourable for setting	
	sail for both onward and return journey.	
	Hence option C is the answer	
11. C	Green hydrogen, produced typically using electrolysis, can be used in	
	various ways, specifying the validity of all three statements.	
	1. Statement 1 is correct: It can be utilized directly as a fuel in	
	internal combustion engines. The hydrogen combines with	





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	oxygen to produce energy in a clean process, with water as the	
	only by-product.	
	2. Statement 2 is correct: This type of hydrogen can also be	
	blended into natural gas pipelines. This blend can then be used	
	for heat or power generation, providing cleaner alternatives to	
	conventional natural gas-driven processes.	
	3. Statement 3 is correct: Green hydrogen can indeed serve as a	
	fuel source in hydrogen fuel cell vehicles. These vehicles	
	generate electricity from the reaction of hydrogen and oxygen	
	within the fuel cells, producing only water vapor and heat as	
	emissions.	
	Hence, option (c) is the answer.	
В	• Turkey is a transcontinental country located in Western Asia	
	and Southeastern Europe. It is bordered by eight countries:	
	Greece, Bulgaria, Georgia, Armenia, Azerbaijan, Iran, Iraq, and	
	Greece, Bulgaria, Georgia, Armenia, Azerbaijan, Iran, Iraq, and Syria. It is also surrounded by four seas: the Black Sea to the	
	Greece, Bulgaria, Georgia, Armenia, Azerbaijan, Iran, Iraq, and Syria. It is also surrounded by four seas: the Black Sea to the north, the Mediterranean Sea to the south, the Aegean Sea to	
	Greece, Bulgaria, Georgia, Armenia, Azerbaijan, Iran, Iraq, and Syria. It is also surrounded by four seas: the Black Sea to the	
	Greece, Bulgaria, Georgia, Armenia, Azerbaijan, Iran, Iraq, and Syria. It is also surrounded by four seas: the Black Sea to the north, the Mediterranean Sea to the south, the Aegean Sea to the west, and the Sea of Marmara to the northwest.	
	Greece, Bulgaria, Georgia, Armenia, Azerbaijan, Iran, Iraq, and Syria. It is also surrounded by four seas: the Black Sea to the north, the Mediterranean Sea to the south, the Aegean Sea to	
	Greece, Bulgaria, Georgia, Armenia, Azerbaijan, Iran, Iraq, and Syria. It is also surrounded by four seas: the Black Sea to the north, the Mediterranean Sea to the south, the Aegean Sea to the west, and the Sea of Marmara to the northwest. Option (b) Black Sea and Mediterranean Sea is the answer	
С	 Greece, Bulgaria, Georgia, Armenia, Azerbaijan, Iran, Iraq, and Syria. It is also surrounded by four seas: the Black Sea to the north, the Mediterranean Sea to the south, the Aegean Sea to the west, and the Sea of Marmara to the northwest. Option (b) Black Sea and Mediterranean Sea is the answer Maitreya will be the successor of Gautama Buddha. 	
С	Greece, Bulgaria, Georgia, Armenia, Azerbaijan, Iran, Iraq, and Syria. It is also surrounded by four seas: the Black Sea to the north, the Mediterranean Sea to the south, the Aegean Sea to the west, and the Sea of Marmara to the northwest. Option (b) Black Sea and Mediterranean Sea is the answer	
С	 Greece, Bulgaria, Georgia, Armenia, Azerbaijan, Iran, Iraq, and Syria. It is also surrounded by four seas: the Black Sea to the north, the Mediterranean Sea to the south, the Aegean Sea to the west, and the Sea of Marmara to the northwest. Option (b) Black Sea and Mediterranean Sea is the answer Maitreya will be the successor of Gautama Buddha. 	
С	 Greece, Bulgaria, Georgia, Armenia, Azerbaijan, Iran, Iraq, and Syria. It is also surrounded by four seas: the Black Sea to the north, the Mediterranean Sea to the south, the Aegean Sea to the west, and the Sea of Marmara to the northwest. Option (b) Black Sea and Mediterranean Sea is the answer Maitreya will be the successor of Gautama Buddha. Maitreya is a bodhisattva who will appear on Earth in the future 	
С	 Greece, Bulgaria, Georgia, Armenia, Azerbaijan, Iran, Iraq, and Syria. It is also surrounded by four seas: the Black Sea to the north, the Mediterranean Sea to the south, the Aegean Sea to the west, and the Sea of Marmara to the northwest. Option (b) Black Sea and Mediterranean Sea is the answer Maitreya will be the successor of Gautama Buddha. Maitreya is a bodhisattva who will appear on Earth in the future and is regarded as a future Buddha of this world. He is also 	
	В	





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		Hence option C is the answer.
14.	D	 Trade Union Act 1926-recognized trade union as legal 1928-a year that witnessed industrial unrest Trade Disputes Act (TDA), 1929- For settling industrial disputes, the compulsory appointment of Courts of Inquiry and Consultation Boards It made strikes in public utility services (posts,railways etc.) illegal unless advance notice of one month is given by each worker forbade trade political union activity and sympathetic strikes. Hence, option (d) is the answer.
15.	A	 The real sector of the economy deals with the production side, while the nominal economy deals with the financial side. Financial activities majorly support real activity. The financial sector generates a good portion of its revenue from loans and mortgages. Out of given statements, 1 and 2 are real sector, whereas 3 and 4 are financial sectors. Hence, option (a) 1 and 2 only is the answer.
16.	A	 Eighth Schedule: It lists the official languages of the republic of India. Part XVII of the Indian constitution deals with the official languages in Articles 343 to 351. The Eighth Schedule of the Constitution specifies 22 languages



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17.	С	 (originally 14 languages). These are Assamese, Bengali, Bodo, Dogri (Dongri), Gujarati, Hindi, Kannada, Kashmiri, Konkani, Mathili (Maithili), Malayalam, Manipuri, Marathi, Nepali, Odia, Punjabi, Sanskrit, Santhali, Sindhi, Tamil, Telugu and Urdu. Konkani, Manipuri and Nepali were added by the 71st Amendment Act of 1992. Correct answer is (a).
		 All the terms in the given question are related to the Panchayati Raj system. But, the word "FUNDAMENTAL OBJECT" is to be emphasized while answering this question. People"s participation in development (1) and democratic decentralization (3) are the fundamental objects of the Panchayati Raj system. Statement 1 & 3 is correct. The Panchayati Raj system is not explicitly created to ensure Political accountability. Statement 2 is incorrect. Financial mobilization is a means for better functioning of the Panchayati Raj system, but not the fundamental object. Statement 4 is incorrect. Hence, option (c) 1 and 3 only is the answer.
18.	A	 Out of given statements, East India Company established factories at Broach in the mentioned period. 1. In this question, "first quarter of seventeenth century" is the key. It indicated that one has to focus on the first few years of East India Company expansion in India and suggest which all





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		factories were established in that time. (Charter was given to the	
		company in 1600 and mentioned period in the question is 1600-	
		1625). By 1623, English East India Company had established	
		factories at Surat, Broach, Ahmedabad, Agra, and	
		Masulipatam. Other two places were in control of regional	
		powers in the mentioned period. Knowing control of power and	
		expansion pattern could also help in correctly answering the	
		question.	
		2. Kalingapatnam (part of current day Srikakulam and British	
		era Chicacole) was one of the harbour villages and was a minor	
		port during East India Company regime. Chicacole- part of	
		Northern Circars - known for textile centre. It was taken by	
		British from the Nizam of Hyderabad in 1766, during the first	
		Anglo Mysore war. So, Item 2 is not correct.	
		3. Trichinopoly - Trichy came under the British Influence in the	
		later part of 17th Century. It was under the control of the	
		Carnatic State, came to prominence in the second Carnatic war	
		1749 to 1754- can be easily eliminated.	
		So, Item 3 is not correct.	
		Hence, option (a) 1 only is the answer.	
19.	Α	On 21st June: the Summer Solstice is observed in Northern	
		Hemisphere.	
		• The Sun reaches its northernmost position (Tropic of Cancer), as	
		seen from the Earth.	





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		• The Sun is directly over the Tropic is the only day of the year
		when all locations inside the Arctic Circle experience a
		continuous period of daylight for 24 hours, and the Sun does
		not set below the horizon at the Arctic Circle.
		Hence, option (a) does not set below the horizon at the Arctic Circle is
		the answer.
20.	Α	Dhanyakataka, also known as Dhanakataka or Dharanikota,
		was an ancient city located in present-day Amaravati in Andhra
		Pradesh, India. It was an important Buddhist center during the
		ancient and medieval periods.
		• The Satavahana dynasty ruled a major part of South India from
		the 2nd century BCE to the 3rd century CE.
		Option (a) is correct.
21.	С	• Statement 1 is correct : St. Francis Xavier was one of the
		founders of the Society of Jesus, Jesuit Order.
		• He arrived Goa in 1542 travelled as far as Thoothukudi and
		Punnakayal to baptize the converts
		• Statement 2 is incorrect : He died of a fever on a Chinese
		island of Sancian and later on his body was brought to Goa and
		a Church was made.
		 Statement 3 is correct : Feast of St. Francis Xavier is celebrated
		in Goa each year on 3rd December, marks the anniversary of St
		Francis Xavier''s death.
		Hence, option (c) 1 and 3 only is the answer.

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22.	Α	Correct Answer: (a)
		• Wedderburn had entered the English parliament as a liberal
		member in 1893 and had sought to voice India's grievances
		within the house. Indian Parliamentary Committee was set up
		by him and others to agitate for Indian political reforms in the
		House of Commons.
		Hence, option (a) is the answer.
23.	D	1. Fuel oil (also known as heavy oil, marine fuel, bunker, furnace
		oil, or gasoil) is a fraction obtained from the distillation of
		petroleum (crude oil). It includes distillates (the lighter fractions)
		and residues (the heavier fractions). Statement 1 is correct.
		Applications of Furnace oil:
		2. Marine engines and slow-speed engines for power generation,
		Drying tea leaves, Gas turbines for power generation, Feedstock
		for fertiliser manufacturing, Thermic fluid heaters and hot air
		generators. Statement 2 is correct.
		3. Sulphur is a natural component in crude oil that is present in
		gasoline and diesel unless removed. Furnace oil has high
		component of sulphur leading to its emission when burned.
		Statement 3 is correct.
		Hence, option (d) 1, 2 and 3 is the answer.







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24.	С	• A Microbial Fuel Cell (MFC)/ microbial desalination cell: is a bio-
		electrochemical system that drives an electric current by using
		bacteria and mimicking natural bacterial interactions.
		Statement 1 is correct & Statement 2 is incorrect.
		• Now, MFCs started to find commercial use in wastewater
		treatment and are used to cleanse water and produce electricity.
		Statement 3 is correct.
		Hence, option (c) 1 and 3 only is the answer
25.	С	• In every society, some people have a greater share of valued
		resources money, property, education, health, and power than
		others.
		These social resources can be divided into three forms of capital-
		1. economic capital in the form of material assets and income;
		2. cultural capital such as educational qualifications and status;
		and
		3. social capital in the form of networks of contacts and social
		associations. [Out of given options, the level of mutual trust and
		harmony in the society is the closest to this].
		• Often, these three forms of capital overlap and one can be
		converted into the other.
		Option (d) is the answer.
26.	С	Correct Option: (c)







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		1. The Constitution Day is celebrated in our country on 26th
		November every year to commemorate the adoption of the
		Constitution of India. The Ministry of Social Justice and
		Empowerment on 19th November 2015 notified the decision of
		the Government of India to celebrate the 26th day of November
		every year as 'Constitution Day' to promote Constitution values
		among citizens. Hence, statement I is correct.
		2. The Drafting Committee was set up on August 29, 1947. It was
		this committee that was entrusted with the task of preparing a
		draft of the new Constitution. On 26th November 1949, the
		Constituent Assembly of India adopted the Constitution of India,
		which came into effect on 26th January 1950. Hence,
		statement 2 is not correct.
27.	D	Correct Answer: (D) 1 and 3 only
		Statement 1 is incorrect: Low, thick clouds primarily reflect solar
		Statement 1 is incorrect: Low, thick clouds primarily reflect solar radiation and cool the surface of the Earth.
		radiation and cool the surface of the Earth.
		radiation and cool the surface of the Earth. Statement 2 is incorrect: High, thin clouds primarily transmit incoming
		radiation and cool the surface of the Earth. Statement 2 is incorrect: High, thin clouds primarily transmit incoming solar radiation; at the same time, they trap some of the outgoing
		radiation and cool the surface of the Earth. Statement 2 is incorrect: High, thin clouds primarily transmit incoming solar radiation; at the same time, they trap some of the outgoing infrared radiation emitted by the Earth and radiate it back downward, thereby warming the surface of the Earth.
		radiation and cool the surface of the Earth. Statement 2 is incorrect: High, thin clouds primarily transmit incoming solar radiation; at the same time, they trap some of the outgoing infrared radiation emitted by the Earth and radiate it back downward,
		radiation and cool the surface of the Earth. Statement 2 is incorrect: High, thin clouds primarily transmit incoming solar radiation; at the same time, they trap some of the outgoing infrared radiation emitted by the Earth and radiate it back downward, thereby warming the surface of the Earth.
28.	С	radiation and cool the surface of the Earth. Statement 2 is incorrect: High, thin clouds primarily transmit incoming solar radiation; at the same time, they trap some of the outgoing infrared radiation emitted by the Earth and radiate it back downward, thereby warming the surface of the Earth.





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		per Buddhism, there is a path which consists of perfecting
		certain qualities, which leads the pilgrim to become a Samma
		Sambuddha (Enlightened Universal Buddha) or Bodhisattva.
		The qualities are called the Paramis (perfections) in the Southern
		traditions and the Paramitas in the Eastern and Northern
		traditions.
		Hence option C is the answer.
29.	D	
		Correct Answer: (d) 1, 2, and 3 only
		Statement 1,2 & 3 is correct: All three crops of India mentioned in
		the question, namely cowpea, green gram, and pigeon pea, can be used
		as pulse, fodder, and green manure.
		1. Pulse refers to the edible seeds of leguminous plants that are
		rich in protein and provide essential nutrients to the human
		diet. Cowpea, green gram, and pigeon pea are all pulses that are
		commonly consumed in India and are used in various traditional
		dishes.
		2. Fodder refers to food that is given to domesticated animals,
		especially livestock, to provide them with essential nutrients. All
		three crops are used as fodder, as they are rich in protein and
		provide good nutrition to the animals.
		3. Green manure refers to the practice of using plants to improve
		the fertility of the soil. The plants are grown and then plowed
		back into the soil to add organic matter and nutrients. All three
		crops can be used as green manure as they are leguminous and
		fix nitrogen in the soil.



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30.	С	1. Mekong-South China Sea. Pair 1 is incorrect.
		2. Thames-North Sea. Pair 2 is incorrect.
		3. Pair 3 & 4 is correct.
		Hence, option (c) 3 and 4 only is the answer.
31.	С	Option (c) 2, 3 and 6 only is the answer.
		• Computerisation of PACS may come with a return of better
		efficiency of PACS and hence can increase agricultural efficiency.
		Statement 2 is correct.
		• Similarly, social capital development and cold storage facilities
		may help in better output at a later stage.
		• Hence, these items can be regarded as an investment.
		Statement 3 is correct.
		• However, MSP, free electricity and waiver of loans fit another
		narrative of something which are more sort of additional
		support, not exactly the creation of assets. Statement 1,4 & 5
		is incorrect.
32.	С	Arable land refers to land under temporary crops, temporary
		meadows for mowing or for pasture, land under market or
		kitchen gardens, and land temporarily fallow.
		• Statement 1 is correct: India has the most arable land in the
		world followed by the United States, Russia, China, and Brazil.
		India has the largest arable land of any country at 1,656,780 km
		square (50.4% of total land) compared with 1,084,461 km
		square (11.3% of total land) of China. India has more arable
		land than China. Hence, statement 1 is correct.
		• Statement 2 is correct: India has a higher proportion of







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		 irrigated land than China. China's irrigation cover is 41% of the cultivated area, and India's is 48%. Hence, statement 2 is correct. Statement 3 is incorrect: The average productivity per hectare in Indian agriculture is 2.4 tonnes for rice and 3 tonnes for wheat, while in China it is 6.7 tonnes for rice and 5 tonnes for wheat. Hence, option (b) is the answer.
33.	С	 Sustainable Feedstocks for Producing Sustainable Aviation Fuel: Agricultural residues Corn grain Municipal solid waste streams Wood mill waste Oil seeds Algae Other fats, oils, and greases Forestry residues 9. Wet wastes (manures, wastewater treatment sludge) Statement 3 correct. Dedicated energy crops. Hence, option (c) is correct answer.
34.	A	• A Microbial Fuel Cell (MFC)/ microbial desalination cell: is a bio- electrochemical system that drives an electric current by using bacteria and mimicking natural bacterial interactions.

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		Statement 1 is correct & Statement 2 is incorrect.
		• Now, MFCs started to find commercial use in wastewater
		treatment and are used to cleanse water and produce electricity.
		Statement 3 is correct.
		Hence, option (c) 1 and 3 only is the answer
35.	Α	Lohit and Subansiri are tributaries of Brahmaputra.
		• The Barak is an important river in Manipur and Mizoram.
		Statement 1 is incorrect.
		Hence, option (b) 2 and 3 only is the answer.
36.	Α	• The Donyi Polo Airport is a Greenfield Airport which is located
		in the capital Itanagar. It reflects the people''s reverence of the
		Sun (Donyi) and the Moon (Polo), and symbolizes the rich
		cultural heritage of the State.
		• Kushinagar Airport in Kushinagar district of Uttar Pradesh is a
		Greenfield Airport.
		Airports Authority of India has undertaken development/
		expansion Vijayawada Airport in Andhra Pradesh. It is not a
		greenfield project.
		Hence, Option A is correct.
37.	D	• Avanti was not related to the life of Buddha. Statement 1 is
		incorrect
		• Gandhara is not directly associated with the life of Buddha.
		- Guildhala is not allocally associated with the life of Dadalla.



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		Buddha, who was born in the Shakya (Sakiya) tribe of northern
		Kosala, often preached at the capital city of Shravasti (Savatthi),
		where he passed the rainy season during the last 25 years of his
		life.Hence, Kosala was associated with his life Statement 3 is
		correct
		• Monastic resort of Buddha was the "bamboo grove" in Rajgriha,
		capital of Magadha, provided by king Bimbisara. Statement 4 is
		correct
		Hence option D is the answer.
38.	В	• The ancient texts refer to Mahavira as Nayaputta (son of Nayas).
		This referred to his clan of origin, which is translated in sanskrit
		as jnatra. Hence, Nayaputtais incorrect.
		• Buddha (born c. 6th–4th century BCE, Lumbini, near
		Kapilavastu, Shakya republic, Kosala kingdom [now in Nepal]—
		died, Kusinara, Malla republic, Magadha kingdom [now Kasia,
		India]) was the founder of Buddhism, one of the major religions
		and philosophical systems of southern and eastern Asia and of
		the world.
		• The clan name of the historical figure referred to as the Buddha
		(whose life is known largely through legend) was Gautama (in
		Sanskrit) or Gotama (in Pali), and his given name was
		Siddhartha (Sanskrit: "he who achieves his aim") or Siddhattha
		(in Pali). He is frequently called Shakyamuni , "the sage of the
		Shakya clan." In Buddhist texts, he is most commonly
		addressed as Bhagavat (often translated as "Lord"), and as the
		Tathagata , which can mean either "one who has thus come" or
		"one who has thus gone.

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		Hence, option (b) is correct.
39.	C	 Article 281 The President shall cause every recommendation made by the Finance Commission under the provisions of this Constitution together with an explanatory memorandum as to the action taken thereon to be laid before each House of Parliament. Statement 1 is correct. Report of Public Accounts Committee is not placed before the Parliament by the President. Statement 2 is incorrect. Article 151 (1) The reports of the Comptroller and Auditor General of India relating to the accounts of the Union shall be submitted to the President, who shall cause them to be laid before cach House of Parliament. Statement 3 is correct. National Commission for Scheduled Castes Article 338 (6) The President shall cause all such reports to be laid before each House of Parliament along with a memorandum explaining the action taken or proposed to be taken on the recommendations relating to the Union and the reasons for the non-acceptance, if any, of any of such recommendations. Statement 4 is correct. Hence, option (c) 1, 3 and 4 only is the answer.
40.	В	 Pradhan Mantri Fasal Bima Yojana: It was launched in 2016 and replaced all the prevailing yield insurance schemes in India.





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		 This scheme is being administered by the Department of Agriculture, Cooperation and Farmers' Welfare under the Ministry of Agriculture, along with empanelled general insurance companies. Pradhan Mantri Fasal Bima Yojana (PMFBY) has Premium: 2% for all Kharif crops 1.5% for all Rabi crops 5% for annual commercial and horticultural crops. Statement 1 is incorrect.
		 Aim: To support production in agriculture by providing affordable crop insurance to ensure comprehensive risk cover for crops of farmers against all non-preventable natural risks. The scheme provides coverage for the entire cropping cycle, from pre-sowing to post-harvest and midseason adversities. Statement 2 is correct. Hence, option (b) 2 only is
41.	В	 Statement 1 is not correct: The Petroleum and Natural Gas Regulatory Board (PNGRB) was established under the Petroleum and Natural Gas Regulatory Board Act, 2006. It is not the first regulatory body of the Government of India. Forward Market The commission was the first regulatory body setup in 1953



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		under the Forward Contracts (Regulation) Act, 1952. Later,
		it was merged with the Securities and Exchange Board of
		India (SEBI).
		• Statement 2 is correct: The Act provides for the establishment
		of Petroleum and Natural Gas Regulatory Board to protect the
		interests of consumers and entities engaged in specified
		activities relating to petroleum, petroleum products and natural
		gas and to promote competitive markets and for matters
		connected therewith or incidental thereto.
		• Statement 3 is correct: Subject to the provisions of the Act, the
		appeals against the decisions of the Board go before the
		Appellate Tribunal established under Section 110 of the
		Electricity Act, 2003. The said Appellate Tribunal shall
		exercise the jurisdiction, powers and authority conferred on it by
		or under this Act.
		Correct and Option (B)
- 10		
42.	D	• Biochar is a stable, carbon-rich form of charcoal. Its application
		can increase the soil fertility, water holding capacity and crop
		productivity. All the three given statements are correct in this
		context.
		Hence, option (d) 1, 2 and 3 is the answer.
43.	В	Bollgard I and Bollgard II insect-protected cotton are counted as
		environmentally friendly way of controlling bollworms. They both
		are associated with the genetically modified BT cotton.

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		Hence, option (b) is the answer.
44.	A	 Levant, the region along the eastern Mediterranean shores, roughly corresponding to modern-day Israel, Jordan, Lebanon, Syria, and certain adjacent areas. Hence, option (a) is the answer
45.	В	 The UN's International Seabed Authority (ISA) grants prospecting, exploration and exploitation licenses for all mining activities in the seabed of the international waters, which are beyond the limits of national jurisdiction. Statement 1 is incorrect. The Global Ocean Commission was an international initiative between 2013 and 2016 to raise awareness, and promote action to address, the degradation of the ocean and help restore it to full health and productivity In 2017, India''s exclusive rights to explore polymetallic nodules from seabed in Central Indian Ocean Basin have been extended by five years. Statement 2 is correct. Hence, option (b) 2 and 3 only is the answer.
46.	С	



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	Côte d'Ivoire and Ghana are the two largest cocoa-growing
	countries, accounting for nearly 60% of global cocoa
	production, followed by Ecuador with 9%.
	• With 2.2 million tonnes of cocoa in 2022, Côte d'Ivoire is the
	world's largest producer, accounting for a third (30 %) of the global total.
	 Familiar brands like Cadbury and Nestle mostly source their
	cocoa from this country.
	• Ghana is another top producer of cocoa. The production of cocoa
	contributes significantly to the nation's GDP.
	• In Asia, Indonesia is the largest producer.
	• West Africa hosts the world''s leading cocoa-producing
	countries, generating 3.9 million tonnes in 2022.
	Hence, option (c) is correct.
В	• Out of the given items, Minimum Support Price is provided for
	Barley, Finger millet, Groundnut and Sesamum only.
	• Minimum Support Price aims to ensure a fair price to farmers.
	Areca nut and Coffee are cash crops, grown with a sole
	commercial motive, typically involving high capital investments
	and high profits. Statement 1 & 3 is incorrect.
	• MSP is more attuned to the concept of economic justice for
	farmers in the low-income category.
	Hence, option (b) 2, 4, 5 and 6 only is the answer.
	В





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48.	В	• In the Kesavananda Bharati case (1973), the Supreme Court
		rejected the earlier opinion (of the Berubari Union case) and held
		that Preamble is a part of the Constitution. Also, The Preamble
		is neither a source of power to legislature nor a prohibition upon
		the powers of the legislature. It is non-justiciable, i.e., its
		provisions are not enforceable in courts of law.
		Hence, option (d) is the answer.
10		
49.	В	• In the Samatha v. State of Andhra Pradesh & Ors (1997)
		judgment, the Supreme Court declared that the transfer of tribal
		land to private parties for mining was null and void under the
		Fifth Schedule. The framework for the protection of the rights of
		tribal and indigenous people is further strengthened by the
		Recognition of Forest Rights Act, 2006 which protects the
		individual and community rights of tribal people in forest areas
		and their right to free and prior informed consent in the event of
		their displacement and resettlement.
		Hence, option (b) Fifth Schedule is the answer.
50.	С	
		The monsoon winds in the Indian Ocean was used by the sailing ships
		to reach overseas countries for maritime trade it is believed that
		Hippalus discovered monsoon wind in the first century. The flow of
		wind and current was favourable for setting sail for both onward and
		return journey.





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51.	D	• Part IXA of the Constitution was inserted by the
		Constitution (Seventy-fourth Amendment) Act, 1992. It
		contains provisions for local self-government at the urban level
		or for the municipalities. Hence, statement 1 is correct.
		• Part XVIII of the Constitution contains provisions for
		emergencies, including national, state and financial
		emergencies. Hence, statement 2 is correct.
		• Article 368 in Part XX of the Constitution deals with the power
		of parliament to amend the Constitution and its procedures. It
		states that the Parliament may amend the Constitution by way
		of addition, variation or repeal of any provision in accordance
		with the procedure laid down for the purpose. Hence,
		statement 3 is correct.
		Option (d) is correct.
50		
52.	С	• Vijayanagar was founded in 1336 by Harihara and Bukka of the
		sangama dynasty. They proclaimed their independence and
		founded a new city on the South Bank of the Tungabhadra
		River. It was called Vijayanagar meaning city of victory,
		Vijayanagara was the name of city and an empire. The empire
		stretched from the river Krishna in the north to the extreme
		South of the peninsula, in the Krishna- Tungabhadra doab.
		They undertook their rule as the agent of a Deity PampaDevi
		(Humpi name derived from goddess name).
		Hence option C is the answer

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53.	С	The correct answer is (C) 1 and 4 only.
		1. True : Florence Nightingale gained international fame for her
		work during the Crimean War, and the award is named in her
		honor.
		2. False: The award was actually instituted in 1973 but is
		presented by the President of India , not directly by the Ministry
		of Health and Family Welfare.
		3. False : The award is not restricted to nurses working only in
		India. Indian citizens who have contributed to nursing services
		can be eligible, irrespective of their location.
		4. True : The award recognizes contributions in various fields of
		nursing such as research, education, administration, and
		patient care, not just hands-on nursing work.
54.	Α	The State refers to a political institution that represents a sovereign
		people who occupy a definite territory. Elements of a state include -
		people, government, territory and sovereignty. Out of given
		options, option (a) best suits the above criteria.
		Hence, option (a) is the answer.
	С	1. Peanut or groundnut (<i>Arachis hypogaea</i>) is a species in the
55.	C	1. Feature of groundmut (Arachis hypoguea) is a species in the
55.	C	legume or "bean" - Fabaceae family (commonly known as the pea
55.	C	
55.	C	legume or "bean" - Fabaceae family (commonly known as the pea
55.	C	legume or "bean" - Fabaceae family (commonly known as the pea family). India is the second-largest producer of groundnuts in
55.	C	legume or "bean" - Fabaceae family (commonly known as the pea family). India is the second-largest producer of groundnuts in the world.

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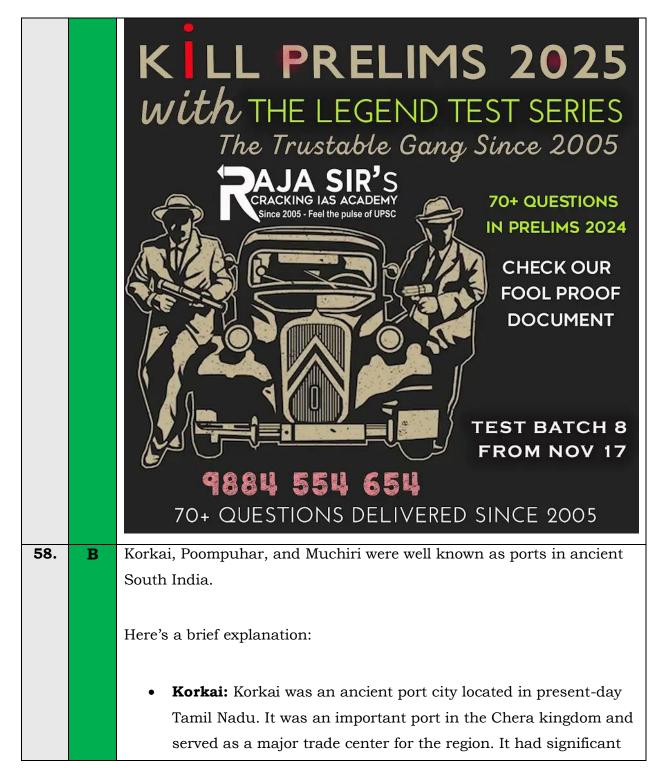
		 3. Soybean belongs to the pea family and is an edible seed. It is economically the most important bean in the world, providing vegetable protein for millions of people and ingredients for hundreds of chemical products. Hence, option (c) is correct.
56.	В	 Statement 1 & 3 is correct: regarding Asteroids and Comets. Statement 2 is only partly correct as comets are not confined between Venus and Mercury only whereas Asteroids are found between the orbits of Mars and Jupiter. Statement 2 is incorrect. Hence, option (b) 1 and 3 only is the answer.
57.	C	 A detritivore is a heterotrophic organism, which obtains its nutrition by feeding on detritus. Detritus is the organic matter made up of dead plant and animal material. Detritivores are often invertebrate insects such as mites, beetles, butterflies and flies, mollusks such as slugs and snails, or soil-dwelling earthworms, millipedes and woodlice. Statement 1,3 & 5 is correct. Seahorses and Jellyfish are secondary consumers. (Secondary consumers are organisms that eat primary consumers for energy) Statement 2 and 4 is correct. Hence, option (c) 1,3 and 5 only is the answer.



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		maritime connections with other parts of India and countries in
		the Indian Ocean.
		• Poompuhar (also known as Kaveripattinam) : Poompuhar was
		another prominent port city situated on the east coast of Tamil
		Nadu. It was a flourishing trading center during the Sangam
		period and played a vital role in maritime trade, especially in the
		export of goods like pearls, spices, and textiles.
		• Muchiri : Muchiri, also referred to as Musiri, was an ancient port
		town located in the present-day state of Tamil Nadu. It was an
		important center for maritime trade and had connections with
		various trade routes in the Indian Ocean, facilitating commerce
		between South India and other regions.
		• These cities were primarily known for their maritime activities,
		including trade and navigation, making the correct answer (b)
		ports.
59.	С	• Soil Health Card is issued to farmers once in three years,
		indicating the status of his soil in terms of 12 parameters.
		• It is also accompanied by advice on the various fertilizers and
		other soil amendments s/he is supposed to make. Statement 3
		is correct.
		• Statement 1 & Statement 2 are not the aims of the scheme.
		Hence, option (b) 3 only is the answer.
60.	С	The word normally in both the statements is to be noted. It filters out
		the exceptions part. Generally, in higher latitudes/altitudes, the
		climatic conditions are more extreme than lower latitudes/altitudes. It
		leads to lower biodiversity in these. Both the given statements are
		correct.



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		Hence, option (C) Both 1 and 2 is the answer.
61.	A	 Diatoms-Unicellular algae Crustaceans - a large group of arthropods including crabs, shrimp, krill etc. Herrings fish and it eats Crustaceans Hence, option (a) Diatoms-Crustaceans-Herrings is the answer. -Identify the primary producer to eliminate the options in a food chain type question.
62.	В	 The correct answer is (b) 1, 3, and 4 only. Statement 1 is correct: The VL-SRSAM is designed to counter aerial threats, including enemy fighter jets, helicopters, and missiles. Statement 2 is incorrect: The VL-SRSAM can be deployed on both land and naval platforms, making it versatile for maritime as well as coastal defense. Statement 3 is correct: The missile has an effective strike range of around 40-50 kilometers. Statement 4 is correct: The vertical launch system provides a 360-degree interception capability, enabling faster and more accurate target engagement.
63.	В	 The roads were not safe and Hiuen Tsang himself got robbed more than once. Hence, statement 1 is wrong. Criminal law was severe and the offenders were given



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		imprisonment, also trial by ordeals was in vogue. Hence,
		statement 2 is correct.
		• The government was liberal in the case of tax and revenue
		collection. Tradesmen had to pay light duties at ferries and
		barrier stations. Hence, statement 3 is correct.
		Therefore, option (b) is correct.
64.	D	• Shramana means seeker, one who performs acts of austerity,
• • •		ascetic.
		 Agraharika means one who probably looked after the lands
		given in charity.
		• Parivraajaka literally means 'one who roams about all round the
		place.
		• Memorizing of chronicles, dynastic histories or epic tales was the
		work of a different group of people, the Sutas and Magadhas ,
		who were the descendants of priestly families of the Vedic
		period.
		Hence, option (d) is the answer.
65.	С	Phosphate rocks are the MAIN source of Phosphorus and it enters the
		cycle through weathering, erosion, leaching, mining etc.
		Hence, option (c) Phosphorus cycle is the answer.
66.	В	1. Sangam poems contain several incidental references to material
		culture, often as part of the poem's setting or in similes and

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		allusions. Statement 1 is incorrect.
		2. The social classification of varna was known to Sangam poets.
		There is mention of the Arashar (kings), Vaishiyar (traders), and
		Velalar (farmers). The Brahmanas are also mentioned, some of
		them closely associated with the courts of kings and patronized
		by ruling elites. However, the four-fold varna classification had
		little application to ancient Tamil society. The jati system was
		not a feature of this society either. Statement 2 is correct.
		3. Sangam Poems are pervaded with a warrior ethic. Puram in
		Sangam literature is the War Poems that deal with the outer life
		of people. Speak of public celebration of the feats of the heroes
		even the death of heroes in wars. Statement 3 is incorrect.
		4. Sangam literature reflects a belief in sacred or magical forces
		called ananku that were supposed to inhabit various objects.
		The job of carrying out rites and rituals to control the ananku
		was that of groups such as the pariyans, tutiyans, panas and
		velans. They were associated with ritualistic singing, dancing,
		and trances, and with lighting the cremation fire and
		worshipping memorial stones. Statement 4 is incorrect.
		Hence option B is the answer.
67.	Α	• The fig tree (Ficus Microcarpa) is famous for its aerial roots,
		which sprout from branches and eventually reach the soil.
		• The tree also has a unique relationship with a wasp that has
		coevolved with it and is the only insect that can pollinate it.
		• The body shapes and sizes of the wasps correspond exactly to
		those of the fig fruits, and each species of fig produces a unique
		perfume to attract its specific wasp pollinator.

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		Hence, Option (a) is correct.
68.	В	 Anjeevika National Rural Livelihoods Mission (NRLM): was launched by the Ministry of Rural Development in 2011 in part support by the World Bank. It aims at creating efficient and effective institutional platforms of the rural poor, enabling them to increase household income through sustainable livelihood enhancements and improved access to financial services. It organizes the poor into SHG and makes them capable of self-employment through skill development. Statement 2 is correct. Statement 1 & 3 is incorrect.
69.	C	 The Susruta Samhita, a medical text from ancient India, describes various surgical instruments and techniques used for surgeries. Hence, statement 1 is correct. There is no evidence to suggest that organ transplants were performed in ancient India. Hence, statement 2 is incorrect. The concept of sine was first introduced by the Indian mathematician Aryabhata in his work Aryabhatiya, which was written in the 5th century AD. Hence, statement 3 is correct. The concept of cyclic quadrilaterals was first discussed by the Indian mathematician Bhaskara in his work Lilavati, which was written in the 7th century AD. Hence, statement 4 is correct.

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		Therefore, option (c) is answer.
70.	Α	The ant-fungus mutualism is a symbiosis, in which ants actively
		cultivate fungus much like human's farm crops as a food source.
		Hence, option (a) Ant is the answer
71.	В	1. The Serum Institute of India produced COVID-19 vaccine
		Covishield is a recombinant, replication- deficient chimpanzee
		adenovirus vector encoding the SARS-CoV-2 Spike (S)
		glycoprotein. Following administration, the genetic material of
		part of corona virus is expressed, which stimulates an immune
		response. Whereas, Pfizer- BioNTech and Moderna vaccines are
		messenger RNA vaccines (mRNA vaccines). Statement 1 is
		incorrect.
		2. Sputnik V vaccine is named after the first Soviet space satellite.
		It is an adenovirus viral vector vaccine for COVID-19 developed
		by the Gamaleya Research Institute of Epidemiology and
		Microbiology. It is the world''s first registered combination vector
		vaccine for the prevention of COVID-19. Statement 2 is
		correct.
		3. Covaxin is an indigenous, inactivated pathogen type vaccine
		developed and manufactured in Bharat Biotech''s BSL-3 (Bio-
		Safety Level 3) high containment facility. The vaccine is
		developed using Whole-Virion Inactivated Vero Cell derived
		platform technology. Statement 3 is correct.
		Hence, option (b) 2 and 3 only is the answer.

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72.	D	Biopesticides are types of pesticides derived from natural materials
		such as animals, plants, bacteria, fungi, and certain minerals.
		Hence, option (d) 1, 2 and 3 is the answer.
73.	В	1. Within a State, the notification of an area as a Scheduled Area
		takes place through an Order of the President. Scheduled Areas
		are areas in certain states of India where special provisions have
		been made to safeguard the rights and interests of the tribal
		population. The President issues orders to declare an area as a
		Scheduled Area. Statement 1 is correct.
		2. The largest administrative unit forming the Scheduled Area is
		the District, and the lowest is the cluster of villages in the Block.
		Scheduled Areas are typically organized at the district level and
		may include clusters of villages within that district. Statement
		2 is correct.
		3. It is the Governor of the concerned State who is responsible for
		submitting annual reports to the President of India, not the
		Chief Ministers. Statement 3 is incorrect.
		So, only statements 1 and 2 are correct based on the information
		provided.
		Hence, option (b) is the answer.
74.	В	The correct answer is B) 1 and 3 only.
		Statement 1 is correct . The PM Surya Ghar scheme provides central
		subsidies for solar rooftop systems for residential sectors. While it
		primarily targets residential installations, commercial sectors may also
		benefit from related schemes.

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		Statement 2 is incorrect . The eligibility criteria for the scheme do not
		specifically mention an income threshold of Rs. 5 lakhs. The focus is
		more on promoting solar adoption rather than income-based eligibility.
		Statement 3 is correct . The scheme typically covers 20% of the cost of
		solar rooftop installations, with the possibility of additional state-level
		incentives that can vary.
75.	D	Mycorrhiza: is a symbiotic association between a green plant and a
		fungus.
		The plant makes organic mineral molecules (like sugars) by
		photosynthesis and supplies them to the fungus.
		Fungus, in return, supplies water and nutrients, such as phosphorus,
		taken from the soil.
		1. Re-introduction of Arbuscular Mycorrhizal Fungi into
		agricultural soils has been shown to increase crop yields in
		nutrient poor soils, increase yields for agricultural plants that
		have large requirement for nutrients and water, and restore
		structure and fertility to degraded soils. Hence, statement 1 is
		correct.
		2. Anthropogenic deposition increases the possibility of
		phosphorus (P) limiting productivity in forest ecosystems.
		Moreover, inorganic P availability is largely controlled by soil pH
		and biogeochemical theory suggests that forests with acidic soils
		(i.e., <ph 5)="" are="" in<="" limitation.="" p="" particularly="" shifts="" th="" to="" vulnerable=""></ph>
		mycorrhizal colonization and community structure help
		temperate forest ecosystems overcome an underlying P
		limitation by accessing mineral and organic P sources that are
		otherwise unavailable for direct plant uptake. Hence,

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		correct.
		Hence, option (b) 2 only is the answer.
77.	D	The correct answer is 1 and 3 only.
		 A rainbow is a natural spectrum appearing in the sky after a rain shower. It is caused by dispersion of sunlight by tiny water droplets, present in the atmosphere. A rainbow is always formed in a direction opposite to that of the Sun. The water droplets act like small prisms. They refract and disperse the incident sunlight, then reflect it internally3, and finally refract it again when it comes out of the raindrop. Due to the dispersion of light and internal reflection, different colours reach the observer's eye. Hence, option (d) 1, 2 and 3 is the answer
78.	D	 Donbas is located in the Donets Basin of Ukraine. It is a large mining and industrial region of southeastern Europe, notable for its sizable coal reserves. The industrial area of the Donbas includes much of the Ukrainian oblast (provinces) of Donetsk and Luhansk. Hence pair 1 is incorrectly matched. "Kachin" comes from the Jinghpaw word "GaKhyen," meaning "Red Earth," a region in the valley of the two branches of the upper Irrawaddy with the greatest concentration of powerful



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		traditional chiefs. Kachin are located primarily in the Kachin
		State of Myanmar (Burma) and parts of the northern Shan
		State, southwestern Yunnan in China, and north easternmost
		India (Assam and Arunachal Pradesh). Hence, pair 2 is
		incorrectly matched.
		3. Tigray, also spelled Tegray, Tigrai, or Tigre, historical region,
		northern Ethiopia. Hence, pair 3 is incorrectly matched.
		Hence, option (d) is the answer
79.	С	Somatic cell nuclear transfer is a laboratory strategy for creating
		a viable embryo from a body cell and an egg cell. It involves
		removing the nucleus, which contains the DNA and implanting
		it into an unfertilised egg whose nucleus has been removed. It is
		used in the reproductive cloning of organisms.
		used in the reproductive cloning of organisms.
		Hence, option (c) is the answer.
80.	С	South to North sequence of given cities
		 Jakarta (Capital of Indonesia)
		 Singapore
		 Bangkok (Capital of Thailand)
		 Hanoi (Capital of Vietnam)
81.	В	
81.	В	Hanoi (Capital of Vietnam)

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		Hence, option (b) Jordan is the answer.
82.	B	 The accelerometer detects signals that are used to identify major vehicle crash/collisions. Hence, statement 1 is correct. The application of accelerometers extends to multiple disciplines, both academic and consumer-driven. For example, accelerometers in laptops protect hard drives from damage. If the laptop were to suddenly drop while in use, the accelerometer would detect the sudden free fall and immediately turn off the hard drive to avoid hitting the reading heads into the hard drive platter. Hence, statement 2 is correct. Accelerometers allow the user to understand the surroundings of an item better. For example, smartphones rotate their display between portrait and landscape mode depending on how you tilt the phone. Hence, statement 3 is correct.
83.	В	 Poverty has both material and nonmaterial dimensions. The material dimension relates to deprivation in consumption, including items such as food, clothing, durables, shelter, health, education and connectivity. Nonmaterial dimension relates to deprivation associated with such phenomena as discrimination based on gender, religion, race or caste. The first step in measuring poverty is to specify a threshold level







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		of expenditure that separates the poor from non-poor.
		• The threshold expenditure, called the poverty line, is the amount
		necessary to purchase a basket (referred to as the poverty line
		basket). Since the cost of the items in the basket varies from
		state to state, so does the poverty line.
		Hence, option (b) is the answer.
84.	A	• A light year is a measure of distance and not of time. Light
		travels at a speed of 300,000 km/second. Considering this, the
		distances the light will travel in one year is taken to be one light
		year. This equals to 9.46x10 kms.
		 The mean distance between the sun and the earth is
		149,598,000 km. In terms of light years, it is 8.311 minutes.
		Speed of light being constant is the reason of its preference as
		use in astronomical distances.
		Hence, option (d) is the answer
85.	С	The UNOPS Sustainable Investments in Infrastructure and
		Innovation (S3i) initiative focuses on three main sectors for its
		investments:
		1. Affordable Housing: UNOPS aims to address the global housing
		crisis, particularly in developing countries, by financing
		affordable, high-quality and energy-efficient homes.
		2. Renewable Energy: The initiative focuses on investments in
		renewable energy solutions, particularly in regions where energy
		access is a major challenge.
		3. Health care: UNOPS is also active in the healthcare sector,

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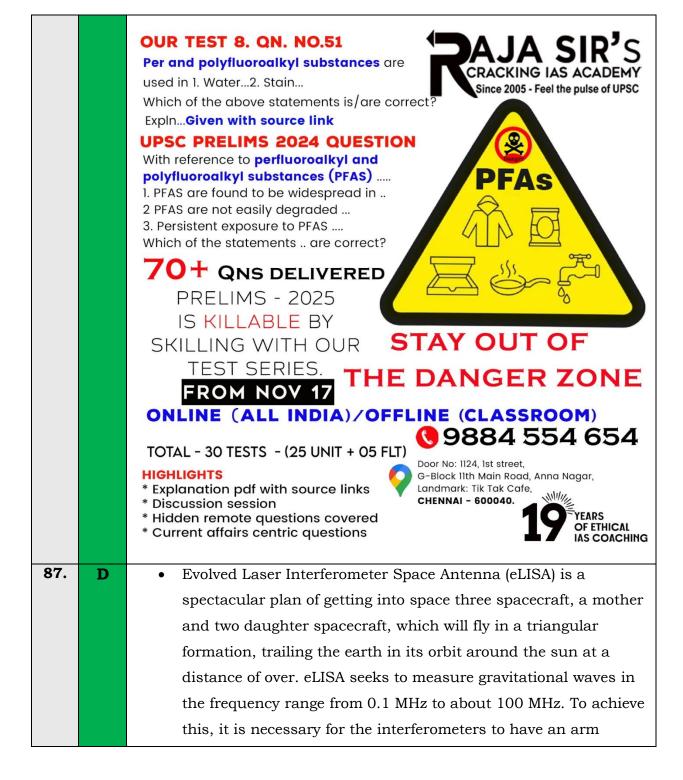
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		investing resources in areas considerable requirements for
		improved health infrastructure.
		You might notice that Mass Rapid Transport is not included in the
		answer. That`s because the UNOPS S3i initiative, currently, does not
		expressly mention mass rapid transport as one of its main focus areas
		for investment.
		So, this option (c) "Only three" is the correct answer, as UNOPS S3i
		focuses on three of the given options, but not all four.
86.	Α	1. Rule 2(1)(d)(iv) of the Companies (CSR Policy) Rules, 2014 states
		that any activity benefiting employees of the company shall not
		be considered as eligible CSR activity. As per the rule, any
		activity designed exclusively for the benefit of employees shall be
		considered as an "activity benefiting employees" and will not
		qualify as permissible CSR expenditure. Hence, statement 1 is
		correct.
		2. The Board of Directors of every company for which the CSR
		provisions apply must ensure that the company spends in every
		financial year at least 2% of its average net profits made during
		the immediately preceding three financial years as per its CSR
		policy. Hence, statement 2 is not correct.
		F
		Hence option (a) is correct
		Hence, option (a) is correct.



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		length of a million kilometers and that is impossible to achieve
		with an earth-based setup.
		Ĩ
		Orations (d) Exclused LICA is the encourse
		Option (d) Evolved LISA is the answer.
88.	В	1. Inflation is high, means excess money in the market. RBI would
		like to withdraw money and hence sell government securities,
		pull money for reducing liquidity. Statement 1 is incorrect.
		2. If the rupee is rapidly depreciating, means there is more rupees
		in market than desired by RBI. Hence, RBI will either pull
		rupees or infuse dollars. Hence, RBI will sell dollars in the
		market" is likely step. Statement 2 is correct.
		3. Interest rate increase in USA or EU will motivate investors to
		shift to India. This will increase rupees demand and rupees will
		appreciate (less rupees available). To control this, RBI will buy
		dollars i.e., infuse further rupees to balance the situation.
		Statement 3 is correct.
		Hence, option (b) 2 and 3 only is the answer.
89.	В	1. "Each 1 percent increase in soil organic matter helps soil hold
		20,000 gallons more water per acre." A high content of organic
		matter in soil increases water holding capacity. Statement 1 is
		correct.
		2. Sulphur is cycled between the soil, plant matter and the
		atmosphere. Statement 2 is incorrect: Sulphur is released by
		the weathering of rocks and minerals.

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		3. Salinization is a major problem associated with irrigation
		because deposits of salts build up in the soil and can reach
		levels that are harmful to crops. Statement 3 is correct.
		Hence, option (b) 3 only is the answer.
90.	D	Software as a Service (SaaS) is a cloud computing model that enables
		users to access software applications over the internet.
		• SaaS buyers can customize the user interface and change data
		fields according to their specific needs. This is because SaaS
		providers offer flexible and customizable solutions to their
		customers. Statement 1 is correct.
		• Software as a service (SaaS) allows users to connect to and use
		cloud-based apps over the Internet. Common examples are
		Outlook, Hotmail and Yahoo! Mail, and office tools like Microsoft
		Office 365. In this case, we rent the use of an app for our
		organisation and our users connect to it over the Internet,
		usually with a web browser. Statement 3 is correct.
		• As data is stored in the cloud, users can access their
		information from any Internet-connected computer or mobile
		device. Statement 2 is correct.
		Also, as app data is stored in the cloud, no data is lost if a user"s
		computer or device fails. All statements are correct in this context.
		Hence, option (d) 1, 2 and 3 is the answer.
91.	D	1. The Ayushman Bharat – Health and Wellness Centres (ABHWCs)
		were launched under the Ayushman Bharat Programme in a bid



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		to move away from selective health care to a more
		comprehensive range of services spanning preventive, promotive,
		curative, rehabilitative and palliative care for all ages. Hence,
		statement 1 is not correct.
		2. In ABHWCs at the Sub Health Centre (SHC) level, Multi-Purpose
		Workers (male & female) & ASHAs and Primary Health Centre/
		Urban Primary Health Centre are organized by state govt but in
		case of tertiary Health services Central govt is also a key
		stakeholder. Hence, statement 2 is correct.
		Hence, Option (d) is correct.
92.	D	• Total Fertility Rate (TFR): The average number of children a
		hypothetical cohort of women would have at the end of their
		reproductive period if they were subject during their whole lives
		to the fertility rates of a given period and if they were not subject
		to mortality. It is expressed as children per woman.
		Hence, option (d) is correct.
93.	С	Conservation agriculture systems utilize soils for the production
		of crops, reduce excessive mixing of the soil and maintain crop
		residues on the soil surface to minimize damage to the
		environment.
		The three principles of conservation agriculture are:
		1. minimum tillage and soil disturbance. Thus, Statement 2 is
		correct.
		2. permanent soil cover with crop residues and live mulches.
		Statement 4 is correct.

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		3. crop rotation and intercropping. Statement 5 is correct.
		Hence, option (c) 2, 4 and 5 is the answer.
94.	C	 The arrangement or relative positions of genes in DNA sequences on a chromosome will help in knowing the pedigree of livestock and also to develop disease-resistant animal breeds. Statement 1 & 3 is correct. By identifying specific genes associated with desirable traits, such as disease resistance, scientists can selectively breed animals with these traits, leading to the development of disease-resistant animal breeds (statement 3). Additionally, knowing the pedigree of livestock (statement 1) can help in identifying desirable traits in animals and in improving breeding programs. However, it would be incorrect to say that the causes of ALL human diseases can be understood from the same. Statement 2 is incorrect. DNA sequencing is used for many purposes, including disease treatment. But, the word ALL in statement 2 makes it too generic and hence poses a considerable burden of proof, making statement 2 incorrect. Hence, option (c) 1 and 3 only is the answer.
95.	С	• Physical capital refers to assets, such as building, machinery,

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		and vehicles, which are owned and employed by an organization.
		• Tools, machines, buildings, ploughs, generators, turbines,
		computers, etc can be used in production over many years, and
		so are called fixed capital.
		1. The farming plough is an example of fixed physical capital. A
		plough is a farm implement used to loosen and till the soil in
		preparation for planting crops. Hence, pair 1 is not correct.
		2. A computer is regarded as a fixed asset for the business as it
		serves the business for the long term. Fixed capital are assets of
		a business that are permanent in nature and are not intended to
		be disposed of by a business. These assets include land,
		buildings, plant, machinery, fixed equipment, furniture, fixtures,
		vehicles, livestock, etc. Hence, pair 2 is correct.
		3. Production requires a variety of raw materials such as the yarn
		used by the weaver,
		4. Petrol used in machines and transportation or the clay used by
		the potter. Also, some money is always required during
		production to make payments and buy other necessary items.
		Raw materials and money in hand are called working capital.
		Hence, pair 3 is not correct while pair 4 is correct.
		Option (b) is the answer.
96.	В	Answer: b) 1 and 2 aniw
		Answer: b) 1 and 3 only
		Statement 1 is correct : The scheme offers 300 units of free electricity
		per month to households installing rooftop solar systems under the PM





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		Surya Ghar Muft Bijli Yojana.
		Statement 2 is incorrect : The subsidy is structured as 60% for the first 2 kW, and 40% for the additional system capacity from 2 to 3 kW. The subsidy is capped at 3 kW capacity.
		Statement 3 is correct : The scheme is expected to significantly reduce
		CO2 emissions by around 720 million tonnes over 25 years,
		contributing to the country's environmental goals.
97.	D	• Statement 1 is correct: Germline gene therapy is the
		replacement of genes in an egg or sperm cells with which an
		offspring inherits a new trait. It allows for the correction of
		disease-causing gene variants that are certain to be passed
		down from generation to generation.
		• Statement 2 is correct: Using Genetically modified organisms
		technique, various genetic diseases of the off-springs can be
		cured, i.e., by editing their DNA. A nucleus is extracted from a
		cell of the individual to be cloned and is inserted into the
		enucleated the cytoplasm of a host egg (an enucleated eggs egg
		cell that has had its own nucleus removed) in reproductive
		cloning.
		• Statement 3 indicates that human induced pluripotent stem
		cells can be injected into the embryo of a pig. This is a process
		called `chimera creation,` and it has been achieved in mice and
		rats. It is theoretically possible to do it in pigs, although it`s
		ethically controversial. Thus, statement 3 is also correct.

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		Hence, option (d) is the answer.
98.	С	• Household financial savings refer to mutual funds, insurance,
		currency, bank deposits, debt securities, pension funds, and
		investments in small savings schemes by households. In 2020-
		21, the net household financial savings was 11.5 percent of
		Gross national disposal income.
		• As government borrows through the issue of government
		securities called G-secs and Treasury Bills , part of this
		financial saving goes toward government borrowing, mainly
		provident funds. Government borrows from the market, small
		savings funds, state provident funds, external assistance and
		short-term borrowings. Any adverse movement in the household
		savings will have a significant bearing on banks, insurance
		companies and mutual/provident funds, as they are key
		investors in government securities,
		• Public debt is the total liabilities of the central government
		contracted against the Consolidated Fund of India. It is further
		classified into internal & external debt.
		• Internal debt is categorised into marketable and non -
		marketable securities. Marketable government securities
		include G-secs and T-Bills issued through auction. Non-
		marketable securities include intermediate treasury bills issued
		to state governments, special securities issued to national Small
		Savings Fund among others. Based on the spending targets and
		likely resource mobilisation on tax and non-tax front, the
		government announces its borrowing programme for the fiscal in
		government announces its borrowing programme for the fiscal if

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		the Budget.
		Hence, Option (c) Both 1 and 2 is the answer.
99.	D	SWAYAM (Study Webs of Active-Learning for Young Aspiring
		Minds) is a programme designed to support the three pillars of
		Education Policy viz, access, equity and quality
		• The objective of this effort is to take the best teaching-learning
		resources to all, including the most disadvantaged.
		Hence, option (d) is the answer.
100	С	Two broad cropping patterns can be identified in India
•		(i) Kharif Crops: sown in the rainy season (June to September)
		Paddy (rice), maize, soyabean, groundnut and cotton. Statement 1,2 &
		3 is correct.
		(ii) Rabi Crops:grown in the winter season (October to March)
		wheat, gram, pea, mustard and linseed. Statement 4 is incorrect.
		Hence, option (c) 1, 2 and 3 is the answer.
101	С	Interventions of Anaemia Mukt Bharat:
101	С	 Interventions of Anaemia Mukt Bharat: Not Prophylactic calcium supplementation but Prophylactic
101	С	



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	 women irrespective of anemia. Hence, statement 1 is incorrect. Appropriate Infant and Young Child Feeding (IYCF) with emphasis on adequate and age-appropriate complementary foods for children 6 months and above. Increase intake of iron-rich, protein-rich and vitamin C-rich foods through dietary diversification/quantity/frequency and food fortification Promoting practice of delayed cord clamping (by atleast 3 minutes or until cord pulsations cease) in all health facility
	 deliveries followed by early initiation of breastfeeding within 1 hour of birth. Hence, statement 2 is correct. Bi-annual mass deworming for children in the age groups between 1-19 years is carried out every year under National Deworming Day (NDD) programme. Hence, statement 3 is correct. The Anemia Mukt Bharat, also integrates deworming of women of reproductive age and for pregnant women as part of the NDD
	 strategy. Addressing non-nutritional causes of anemia in endemic pockets, with special focus on malaria, haemoglobinopathies and fluorosis. Hence, statement 4 is correct. Option (c) Only three is the answer.
102 I	As per 2022 data, Insurance companies are loading up on government securities (G-Secs) due to increase in premium



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collections even as banks relatively seem to be going slow on this front due to excess investment in these securities. Insurance companies'' ownership of government bonds has increased to 26.14% in the quarter ended December 2022 from 24.9% in the quarter ended December 2019, the latest RBI data showed.

- In 2021, the Insurance Regulatory and Development
 Authority of India (IRDAI) allowed insurers to invest in debt
 securities issued by infrastructure investment trusts (InvITs)
 and real estate investment trusts (REITS). The move is
 envisaged to improve the overall yield of portfolios held by
 insurance companies while providing more long-term funding to
 the real estate sector.
- Both InvITs and REITS are regulated by SEBI.

Hence, Insurance companies can invest in both G-Secs and Corporate Bonds.

- The Pension Funds are allowed to invest in corporate bonds/securities which have a minimum of "A" rating or equivalent in the applicable rating scale.
- With the various measures for development, the market has also witnessed the entry of smaller entities such as co-operative banks, small pension, provident and other funds etc. These entities are mandated to invest in G-Secs through respective regulations.

Hence, pension funds can trade in both G-Secs and Corporate Bonds.





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		Hence, option (a) is the answer.
		though the process is complex and expensive.
		2. Statement 2 is incorrect as carbon fibres can be recycled, even
		low weight.
		automobiles and aircrafts due to their high stress tolerance and
		that is used in the manufacturing of various components for
		as carbon fibres are a lightweight, strong and durable material
		manufacture of components used in automobiles and aircrafts
		1. Statement 1 is correct: Carbon fibres are used in the
•		used in many processes to create excellent building materials.
103	A	long chain. The fibers are extremely stiff, strong, and light, and are
103	A	Hence, option (d) is correct. Carbon fiber is composed of carbon atoms bonded together to form a
		Bonds.
		Hence, retail investors can trade in both G-Secs and Corporate
		were previously priced out of the market.
		opens up a new investment opportunity for retail investors who
		placed corporate bonds from Rs.1 lakh to Rs.10,000. This move
		 Recently, the SEBI slashed the minimum ticket size of privately
		well as buy and sell G-Secs in the secondary market.
		allows retail investors to buy G-Secs in the primary auctions as
		accounts with the banks and RBI. The Retail Direct Scheme
		• Retail investors can invest directly in G-Sec by opening gilt





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		 Sodium facilitates nerve cells to send electrical signals to muscles for contraction.
•		 Iron helps in supporting continued muscle function by supporting energy production in the muscle cells.
105	D	1. Calcium is necessary for muscle contraction.
		 Its property to dissolve many salts, particularly in large quantity, makes it hard and hazardous for industrial use. Both temporary and permanent hardness can be removed by the use of zeolites, and synthetic ion-exchangers. Water molecules have composition-hydrogen with a positive charge on one side and oxygen with a negative charge on another. Hence, they are able to attract other molecules easily. Hence, option (a) is the answer.
		(b) to act as an atmospheric (acid as well as base) substance; and(c) to form hydrates of different types.
		(a) a very good solvent for ionic and partially ionic compounds;
		The polar nature of water makes it:
		which is the maximum in ice and least in water vapour,
		biosphere. The water molecule is highly polar in nature due to its bent structure. This property leads to hydrogen bonding
•		and to gaseous state allows it to play a vital role in the



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106	D	Option (d) is the correct answer and correct explanation of Indirect transfers -A foreign company transfers shares and such shares derive their substantial value from assets located in India.
	A	 Pran Pratishtha of Somnath Temple (installation of the present- day temple) was done by India''s first President Dr. Rajendra Prasad. Statement 3 is incorrect. Rest statements are correct. Hence, option (a) 1 and 2 only is the answer.
	В	 Santiniketan, West Bengal - Santiniketan established by Rabindranath Tagore was a residential school and center for art based on ancient Indian traditions and a vision of the unity of humanity transcending religious and cultural boundaries. Santiniketan has been recognized by UNESCO as India''s 41st World Heritage Site in the year 2023. Hence, statement 1 is correct. Rani-ki-Vav,Gujarat - Rani-ki-Vav, on the banks of the Saraswati River, was initially built as a memorial to a king in the 11th century AD. Rani-ki-Vav has been recognized by UNESCO as India''s 32nd World Heritage Site in the year 2014. Hence, statement 2 is incorrect.



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		Hoysala-style temple complexes, Karntaka
		• The Sacred Ensembles of the Hoysala, the famed Hoysala
		temples of Belur, Halebid and Somanathapur in Karnataka have
		been added to the United Nations Educational, Scientific and
		Cultural Organization (UNESCO) World Heritage list in the year
		2023. This inclusion marks the 42nd UNESCO World Heritage
		Site in India.Hence, statement 3 is correct.
		• Mahabodhi Temple Complex, BodhGaya - The Mahabodhi
		Temple Complex is one of the four holy sites related to the life of
		the Lord Buddha, and particularly to the attainment of
		Enlightenment.
		• The Mahabodhi Temple Complex has been recognized by
		UNESCO as India''s 23rd World Heritage Site in the year 2002.
		Hence, statement 4 is incorrect.
		Hence, Option (b) is correct.
109	B	 Hence, Option (b) is correct. Statement 1 is incorrect the decrease in food grain cultivation
109	В	
109	В	• Statement 1 is incorrect the decrease in food grain cultivation
109	В	• Statement 1 is incorrect the decrease in food grain cultivation leads to high food inflation. While it's plausible, the reduction in
109	B	• Statement 1 is incorrect the decrease in food grain cultivation leads to high food inflation. While it's plausible, the reduction in food grains cultivation does not automatically denote high
	В	• Statement 1 is incorrect the decrease in food grain cultivation leads to high food inflation. While it's plausible, the reduction in food grains cultivation does not automatically denote high inflation. There could be other factors at play, such as
	В	• Statement 1 is incorrect the decrease in food grain cultivation leads to high food inflation. While it's plausible, the reduction in food grains cultivation does not automatically denote high inflation. There could be other factors at play, such as improvements in food import or advanced farming techniques.
	В	 Statement 1 is incorrect the decrease in food grain cultivation leads to high food inflation. While it's plausible, the reduction in food grains cultivation does not automatically denote high inflation. There could be other factors at play, such as improvements in food import or advanced farming techniques. Statement 2 is correct, increasing incomes change
	В	 Statement 1 is incorrect the decrease in food grain cultivation leads to high food inflation. While it's plausible, the reduction in food grains cultivation does not automatically denote high inflation. There could be other factors at play, such as improvements in food import or advanced farming techniques. Statement 2 is correct, increasing incomes change consumption patterns. This may affect food inflation as people
109	В	 Statement 1 is incorrect the decrease in food grain cultivation leads to high food inflation. While it's plausible, the reduction in food grains cultivation does not automatically denote high inflation. There could be other factors at play, such as improvements in food import or advanced farming techniques. Statement 2 is correct, increasing incomes change consumption patterns. This may affect food inflation as people with higher income tend to consume more, possibly leading to





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		• Statement 3 is correct it cites structural constraints in the
		food supply chain. This is a major contributor to food inflation
		as inefficiencies and bottlenecks can cause rise in costs, leading
		to inflation.
		Hence, option (b) 2 and 3 only is the answer.
110	Α	• Statement 2 is incorrect: Dancing on the brass plate by keeping
		the feet on its edges is a feature of Kuchipudi, not
		Bharatnatyam.
		 Statement I is correct.
		• Statement i is correct.
		Hence, option (a) 1 only is the answer.
111	Α	• Nitrogen-fixing plants are those that have roots colonized by
•		specific kinds of bacteria with the ability to extract nitrogen from
		the air and convert it to a usable form of nitrogen that can be
		used to help them grow.
		• Nitrogen-fixing plants contribute an essential plant nutrient
		that's necessary for healthy fruit and foliage production.
		1. Alfalfa should also be dubbed the "King of Nitrogen Fixation"
		because it makes more residual nitrogen available to subsequent
		crops than any other legume you can grow.
		2. Chickpea plays a significant role in improving soil fertility by
		fixing atmospheric nitrogen.
		3. Red Clover (Trifolium Pratense) is a nitrogen-fixing perennial
		plant that produces showy red, purple, or pink flowers in late



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		spring or summer.
		4. Amaranth species are cultivated as leaf vegetables,
		pseudocereals, and ornamental plants. Most of the Amaranthus
		species are summer annual weeds and are commonly referred to
		as pigweeds.
		5. Purslane is an annual succulent that has been considered both
		a useless weed and a powerful medicinal plant at different times
		throughout history.
		6. Spinach, also known as Spinacia oleracea, is a member of the
		Amaranthaceae family.
		Option (a) 1, 3 and 4 only is the answer.
112	Α	• Article 55-2 (a) every elected member of the Legislative
		Assembly of a State shall have as many votes as there are
		multiples of one thousand in the quotient obtained by dividing
		multiples of one thousand in the quotient obtained by dividing the population of the State by the total number of the elected
		the population of the State by the total number of the elected
		the population of the State by the total number of the elected members of the Assembly;
		 the population of the State by the total number of the elected members of the Assembly; Article 55-2 (c) each elected member of either House of
		 the population of the State by the total number of the elected members of the Assembly; Article 55-2 (c) each elected member of either House of Parliament shall have such number of votes as may be obtained
		 the population of the State by the total number of the elected members of the Assembly; Article 55-2 (c) each elected member of either House of Parliament shall have such number of votes as may be obtained by dividing the total number of votes assigned to the members of
		 the population of the State by the total number of the elected members of the Assembly; Article 55-2 (c) each elected member of either House of Parliament shall have such number of votes as may be obtained by dividing the total number of votes assigned to the members of the Legislative Assemblies of the States under by the total
		 the population of the State by the total number of the elected members of the Assembly; Article 55-2 (c) each elected member of either House of Parliament shall have such number of votes as may be obtained by dividing the total number of votes assigned to the members of the Legislative Assemblies of the States under by the total number of the elected members of both Houses of Parliament.
		 the population of the State by the total number of the elected members of the Assembly; Article 55-2 (c) each elected member of either House of Parliament shall have such number of votes as may be obtained by dividing the total number of votes assigned to the members of the Legislative Assemblies of the States under by the total number of the elected members of both Houses of Parliament. From the first part, votes of each MLA vary state to state, as it is
		 the population of the State by the total number of the elected members of the Assembly; Article 55-2 (c) each elected member of either House of Parliament shall have such number of votes as may be obtained by dividing the total number of votes assigned to the members of the Legislative Assemblies of the States under by the total number of the elected members of both Houses of Parliament. From the first part, votes of each MLA vary state to state, as it is a function of the number of seats in state assembly and

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		house to which the MP belongs. [Statement 2 is incorrect, i.e.
		vote of an MP from Lok Sabha being more than an MP from
		Rajya Sabha is incorrect].
		Hence, option (a) 1 only is the answer.
113	С	1. Hedgehogs are small mammals with short limbs and a body low
•		to the ground. When they are frightened, or annoyed, hedgehogs
		will roll into a ball so that a predator will feel the full brunt of its
		sharp spines and will then leave the hedgehog alone. Statement
		1 is correct.
		2. Marmots are relatively large ground squirrels in the genus
		Marmota, with 15 species living in Asia, Europe, and North
		America. These herbivores are active during the summer when
		often found in groups, but are not seen during the winter when
		they hibernate underground. They are the heaviest members of
		the squirrel family No such property of rolling. Statement 2 is
		incorrect.
		3. Pangolins are uniquely covered in tough, overlapping scales.
		These mammals cat ants and termites using an extraordinarily
		long, sticky tongue, and are able to quickly roll themselves up
		into a tight ball when they feel threatened. Eight different
		pangolin species can be found across Asia and Africa.
		Statement 3 is correct.
		Hence, option (d) 1 and 3 is the answer.

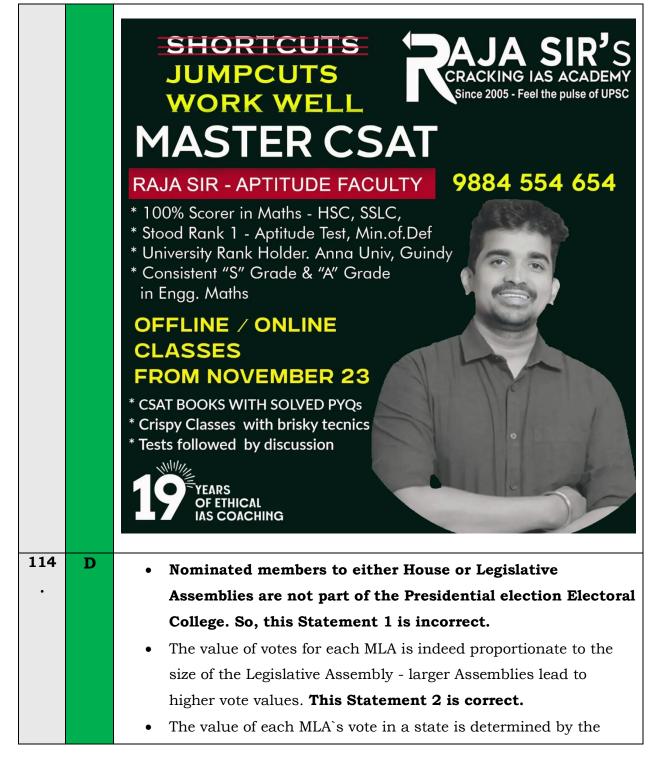
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		state`s population, not by the state itself. Therefore, without
		clarity on current population figures, this statement cannot be
		accurately evaluated, but it`s not just based on being an MLA of
		Madhya Pradesh versus Kerala. Statement 3 is incorrect.
		• The value of each MLA's vote is determined by the number of
		people the MLA represents, not by a ratio of total population to
		total seats. Therefore, this Statement 4 is incorrect.
		Hence, option (a) is the answer.
115	D	• Option (a) refers to Arbitrage, not Beta, where an asset is bought
•		and sold simultaneously on different platforms to take
		advantage of differing prices for the same asset.
		• Option (b) can be an aspect of beta but it isn`t completely
		accurate because beta itself doesn`t define an investment
		strategy but rather helps in deciding one. It is a tool used by
		portfolio managers for this but isn`t an investment strategy
		itself.
		• Option (c) discusses a specific type of risk, but beta is a general
		measure of risk relating to the responsiveness of a stock`s price
		changes to the overall market changes. It does not specify
		systemic risk where perfect hedging isn`t possible.
		• Option (d) is the correct answer. Beta is indeed a numeric value
		that measures the tendency of a stock`s price to respond to
		swings in the overall market. A beta higher than 1 suggests
		that the stock`s price would be more volatile than the
		market , while a beta less than 1 indicates less volatility.
		Hence, option (d) is the answer.

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116	В	• According to the Indian constitution, even if the election of the
•		President of India is declared void, all the actions taken by
		him/her in the performance of the duties of the office of
		President remain valid. Statement 1 is incorrect.
		• Regardless of the status of the state legislative assemblies, the
		election to the office of the President cannot be postponed
		according to the Indian constitution. Statement 2 is incorrect.
		• "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." This statement is incorrect as well. The
		Indian constitution doesn"t set any time limit within which the
		President of India must declare his/her assent to a Bill.
		Statement 3 is incorrect.
		Hence, option (d) None is the answer.
117	Α	• Article 361 (2) No criminal proceedings whatsoever shall be
		in toto oor (2) no enimital proceedings whatsoever shall be
		instituted or continued against the President or the Governor of
•		
•		instituted or continued against the President or the Governor of
		instituted or continued against the President or the Governor of a State, in any court during his term of office. Statement 1 is
•		instituted or continued against the President or the Governor of a State, in any court during his term of office. Statement 1 is correct.
•		 instituted or continued against the President or the Governor of a State, in any court during his term of office. Statement 1 is correct. Article 158 (4) The emoluments and allowances of the Governor
		 instituted or continued against the President or the Governor of a State, in any court during his term of office. Statement 1 is correct. Article 158 (4) The emoluments and allowances of the Governor shall not be diminished during his term of office. Statement 2
•		 instituted or continued against the President or the Governor of a State, in any court during his term of office. Statement 1 is correct. Article 158 (4) The emoluments and allowances of the Governor shall not be diminished during his term of office. Statement 2 is correct.
•		 instituted or continued against the President or the Governor of a State, in any court during his term of office. Statement 1 is correct. Article 158 (4) The emoluments and allowances of the Governor shall not be diminished during his term of office. Statement 2 is correct.
118	D	 instituted or continued against the President or the Governor of a State, in any court during his term of office. Statement 1 is correct. Article 158 (4) The emoluments and allowances of the Governor shall not be diminished during his term of office. Statement 2 is correct.
118		 instituted or continued against the President or the Governor of a State, in any court during his term of office. Statement 1 is correct. Article 158 (4) The emoluments and allowances of the Governor shall not be diminished during his term of office. Statement 2 is correct. Hence, option (c) Both 1 and 2 is the answer.
118		 instituted or continued against the President or the Governor of a State, in any court during his term of office. Statement 1 is correct. Article 158 (4) The emoluments and allowances of the Governor shall not be diminished during his term of office. Statement 2 is correct. Hence, option (c) Both 1 and 2 is the answer. 1. Statement 1 is correct and is the basic definition of the food







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		• Food chains are not limited to within the populations of a single
		species. They typically involve multiple species and depict the
		flow of energy and nutrients through different trophic levels,
		including producers (plants), primary consumers (herbivores),
		secondary consumers (carnivores), and so on.
		• E.g. In the aquatic food chain, zooplankton is eaten by fish
		[Such checking of validity by statements in objective papers is
		recommended].
		3. Statement 3 is incorrect as the food chain does not illustrate
		the number of organisms at each trophic level. It is only a
		qualitative concept.
		Hence, option (a) 1 only is the answer.
119	С	• Pair 1 & 3 is correctly matching.
•		• Pair 2 is incorrect: Mohiniyattam is a classical Indian dance
		from Kerala. The classical Indian dance from Orissa is Odissi.
		Hence, option (c) 1 and 3 only is the answer.
120	С	1. Bioremediation is defined as a process that uses microorganisms
•		or their enzymes to degrade environmental contaminants into
		lesser toxic forms. The microorganisms may be indigenous or
		brought from elsewhere. It is a broader term including many
		waste treatment processes such as bioventing, bioaugmentation,
		biopiles etc. Statement 1 is correct.





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		2. Quick and complete removal of any contaminant is not possible
		through Bioremediation. Statement 2 is incorrect.
		3. Genetic engineering can be used to modify microorganisms to
		enhance their ability to degrade specific pollutants. For example,
		scientists have engineered bacteria that can break down plastic
		waste. This approach has the potential to create highly efficient
		and specialized microorganisms for bioremediation. Statement
		3 is correct.
		Hence, option (c) 1 and 3 only is the answer.
121	Α	Statement 1 is correct.
		Article 58 of the Constitution - Qualifications for election as
		President. (1) No person shall be eligible for election as President
		unless he - (a) is a citizen of IndiaAs President of India is the
		head of the state, it is correct that one has to be citizen to
		become the Head of state. However, it is not mandatory that the
		citizenship has to be by birth only. Statement 2 is incorrect.
		• (This feature of "only by birth" is present in American
		Constitution).
		• Section 10 in the Citizenship Act, 1955 prescribes conditions in
		which any citizen be deprived of Indian citizenship. Conditions
		are like, registration is done by fraud, person is disloyal towards
		constitution, voluntarily acquiring citizenship of other country,
		etc. Statement 3 is incorrect.
		Hence, option (a) 1 only is the answer.



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122	С	1. A fern is a member of a group of vascular plants that reproduce
•		via spores and have neither seeds nor flowers. Ferns require
		indirect sunlight, moist soil, and a humid atmosphere. [1
		requires soil]
		2. Lichens, a symbiotic relationship of Algae and fungi (dominant
		partner), only require an undisturbed surface, time, and clean
		air. [2 does not require soil]. Lichens are very sensitive to air
		pollution.
		3. Mosses are non-flowering plants which produce spores and have
		stems and leaves, but don''t have true roots, Moss is very low
		maintenance and needs virtually nothing except shade and
		moisture to thrive. [3 does not require soil].
		4. Mushroom or toadstool (family fungi) first appears as tiny white
		ball with cap and short stem, which later opens like an
		umbrella. Some species of mushroom are edible. They don''t
		have chlorophyll, hence do not make own food. They grow above
		soil on the ground or on its food source or even hydroponically.
		[It is not most likely that 4 will be found surviving on surface
		without soil].
		Hence, option C is the answer.
123	С	- Tranical minformata lunga of the Forth draws in carbon
123	C	Tropical rainforests - lungs of the Earth- draws in carbon diavide and breathe out owners. Natural watlands earth"
•		dioxide and breathe out oxygen. Natural wetlands-earth's
		kidneys-high and long- term capacity to filter pollutants from
		the water
		Hence, option (d) is the answer.



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124	D	 In every society, some people have a greater share of valued resources money, property, education, health, and power than others. These social resources can be divided into three forms of capital- 1. economic capital in the form of material assets and income; 2. cultural capital such as educational qualifications and status; and 3. social capital in the form of networks of contacts and social
		associations. [Out of given options, the level of mutual trust and harmony in the society is the closest to this].
		Often, these three forms of capital overlap and one can be converted into the other.
		Option (d) is the answer.
125	В	• Pairs 1 & 3 are correctly matched.
•		• The village of Nako, at about 3,900 m, in Kinnaur (Himachal
		Pradesh) has an early temple complex The main temple is called
		the Lhotsava Lakhang or the temple of the great translator
		Rinchen Zangpo. Zanskar Valley is in Jammu and Kashmir. Pair
		2 is incorrect.
		Hence, option (c) 1 and 3 only is the answer
126	Α	• Nitric oxide is an essential molecule required for overall health.
		As a vasodilator, nitric oxide signals the blood vessels to relax,
		allowing them to expand.
		• This effect allows blood, nutrients, and oxygen to flow freely to
		every part of the body. But when nitric oxide production is



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		decreased, your health can become compromised.
		• Therefore, it's important to achieve and maintain optimal levels
		of nitric oxide in the body. Nitric oxide dilates blood vessels,
		raising blood supply and lowering blood pressure.
		raising blood supply and lowering blood pressure.
		Hence, option (a) is correct.
127	D	• In the election of Lok Sabha, first past the post system has been
•		adopted. It means that a candidate wins if he/she gets
		maximum votes among all the candidates.
		• E.g. 3 candidates are contesting in the election for a seat. In
		case, A gets 40%, B & C each gets 30% of polled votes.
		Candidates A gets elected despite getting less than 50% polled
		votes. Statement 1 is incorrect.
		• By convention, the speaker of Lok Sabha post goes to the
		majority party, and that of Deputy speaker goes to the
		opposition party. But, there is no such provision in the
		Constitution. Statement 2 is correct.
		Hence, option (d) Neither 1 nor 2 is the answer.
128	D	Remote sensing data measures reflected and emitted radiation
•		from objects to find characteristics. Remote sensing/satellite
		images data is being used in achieving all the given objectives.
		Hence, option (d) 1, 2 and 3 is the answer.
		• Remote sensing involves instruments that can measure the
		spectrum of radiation.





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		• In statement 1, as chlorophyll is responsible for the green colour
		of leaves, it is possible that the intensity of green colour as
		obtained by a satellite can provide information about the
		chlorophyll content. Thus statement 1 is likely to be true. In
		statement 3, the spectrum of radiation emitted can give us an
		idea of the land surface temperature. We know that there are
		thermometers that can measure temperature without contact.
		Similar technology is possible here too. Thus, statement 3 is also
		likely to be true. This type of approach, of extended application
		of limited knowledge, especially in the topics where we are
		exposed to the discussed substances in day
		Hence, we are left with only the option (d).
129	Α	Musk deer is a solitary shy animal, lives in mountainous regions
•		from Siberia to the Himalayas.
		• It is found in Askot Musk Deer Sanctuary (in Uttarakhand), a
		natural habitat of Musk deer.
		• It is also found in Gangotri National Park in Uttarakhand.
		Hence, option (a) 1 and 2 only is the answer.
130	D	Large number of Self Help Groups (SHGs) are working in India
		at the grass-roots level especially in rural India on the principles
		of mutual help, solidarity and joint responsibility. The more the
		Self Help Groups, the better the financial inclusion. Statement
		1 is correct.
		• MSMEs are an important sector for the Indian economy and
		÷ 5

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		have contributed immensely to the country's socio-economic
		development. It not only generates employment opportunities
		but also works hand-in-hand towards the development of the
		nation's backward and rural areas. It can help in financial
		inclusion. Statement 2 is correct.
		• The RTE Act aims to provide primary education to all children
		aged 6 to 14 years. The act mandates 25% reservation for
		disadvantaged sections of the society where disadvantaged
		groups include: SCs and STs. Education can help uplift the
		backward and downtrodden society. Statement 3 is correct.
		Hence, option D is the answer.
131	D	1. Out of eight Union Territories, three (Delhi, Puducherry and
•		Jammu & Kashmir) have representations in the Rajya Sabha.
		Statement 1 is incorrect.
		2. Disputes relating to the election of members of Parliament and
		State Legislatures are under the original jurisdiction of the High
		Court. Election Commission acts as a court to settle disputes
		related to grant of recognition to political parties and allotment
		of election symbols to them. Statement 2 is incorrect
		3. Parliament consists of President, Lok Sabha and Rajyasabha.
		Statement 3 is incorrect.
		Hence, all three statements are incorrect, and option (d) None is the
		answer.



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132	D	
		The Indri is native to Madagascar, not Brazil. It is a diurnal tree-
		dweller and one of the largest living lemurs, found in the lowland and
		montane forests along the eastern coast of Madagascar. Pair 1 is
		incorrect.
		Elk (red deer) is found in North America and in the high mountains of
		Central Asia. They inhabit diverse habitats such as coniferous rain
		forests, prairies, and mountainous areas. Pair 2 is incorrect.
		The Bonobo (The bonobo also historically called the pygmy
		chimpanzee) is found only in the Democratic Republic of the Congo,
		specifically in the lowland rainforests along the south bank of the
		Congo River, not Madagascar. Pair 3 is incorrect.
		Hence, option (d) None are correctly matched.
133	D	• Massive stars also use up the hydrogen fuel in their core faster,
•		despite starting out with much more of it, meaning they live
		much shorter lives than dwarf stars. Hence, statement 1 is not
		correct.
		• Giant stars have masses from eight times to as much as 100
		times that of the mass of our sun. These massive stars have
		hotter and denser cores than dwarf stars. Therefore, giant stars
		have a greater rate of nuclear reactions that light up stars.
		Hence, statement 2 is correct.
		Hence, option (d) is the answer.
134	С	• Dugong feeds on seagrass, dugongs are found in seagrass beds,





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		aboltored waters lagoons and have. It is an only strictly marine
•		sheltered waters, lagoons and bays. It is an only strictly marine
		herbivorous mammal. Statement 1 is correct.
		• In India, it is found near the Gulf of Kutch (Gujarat), Gulf of
		Mannar (Tamil Nadu), Palk Bay and Andaman and Nicobar
		Islands, not along the entire coast of India. Statement 2 is
		incorrect.
		• It is listed under Schedule 1 of the Wildlife Protection Act.
		Statement 3 is correct.
		Hence, option (c) 1 and 3 is the answer.
135	Α	Section 8 (1) of the Rules 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. Statement 1 is correct.
		• Statement 2 is incorrect, as there is no such provision either
		in constitution or as a parliamentary practice.
		• Statement 3 is correct. Statement 4 is incorrect as While
		the Speaker may move the motion for the election of
		Deputy Speaker, there is no requirement for the Prime
		Minister to second the motion.
		Hence, option (a) 1 and 3 only is the answer.
136	Α	1. Statement 1 is incorrect: Many coastal power plants in India
•		use seawater for cooling purposes. For instance, the Mundra



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		Thermal Power Station in Gujarat, India, which is one of the
		largest coal-based power plants in the country, uses seawater
		for cooling.
		2. Statement 2 is incorrect: Some thermal power plants in India
		are indeed located in water-stressed regions. For example, many
		plants in the states of Rajasthan and Maharashtra, which
		frequently face water scarcity issues, rely on local water sources
		for their operations.
		3. Statement 3 is incorrect: There are several private players in
		the thermal power sector in India, including companies like Tata
		Power, Adani Power, and Reliance Power, among others. They
		own and operate a number of coal-based thermal power plants
		in the country.
		Hence, (d) None of the statements is correct.
137	С	Bhatkal is the southernmost point of the Uttara Kannada
•		district in Karnataka. It is located on the south bank of the river
•		district in Karnataka. It is located on the south bank of the river Sharabi.
·		Sharabi.
·		Sharabi.The name Bhatkal is said to be derived from the Jain saint
•		Sharabi.The name Bhatkal is said to be derived from the Jain saint Bhatta Akalanka who lived here in the ninth century CE.
•		 Sharabi. The name Bhatkal is said to be derived from the Jain saint Bhatta Akalanka who lived here in the ninth century CE. Bhatkal came into limelight with the advent of the Portuguese in
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•		 Sharabi. The name Bhatkal is said to be derived from the Jain saint Bhatta Akalanka who lived here in the ninth century CE. Bhatkal came into limelight with the advent of the Portuguese in India. Since the time of Vasco de Gama, Bhatkal chiefs were paying tributes to the Portuguese rulers.
•		 Sharabi. The name Bhatkal is said to be derived from the Jain saint Bhatta Akalanka who lived here in the ninth century CE. Bhatkal came into limelight with the advent of the Portuguese in India. Since the time of Vasco de Gama, Bhatkal chiefs were paying tributes to the Portuguese rulers. Emperor Krishnadevaraya allowed the Portuguese to build a fort
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·		 Sharabi. The name Bhatkal is said to be derived from the Jain saint Bhatta Akalanka who lived here in the ninth century CE. Bhatkal came into limelight with the advent of the Portuguese in India. Since the time of Vasco de Gama, Bhatkal chiefs were paying tributes to the Portuguese rulers. Emperor Krishnadevaraya allowed the Portuguese to build a fort



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138	D	• Coalbed methane is the pure methane gas extracted from coal
•		seams.
		Shale gas consists:
		1. *Methane (more)
		2. *Ethane, Propane, & Butane (less)
		3. *Carbon dioxide, nitrogen, and hydrogen sulphide (little)
		[Statement 1 is incorrect, please note that part of St.1. but
		overall, it is incorrect].
		• Shale gas deposits have been found in India.
		• Located in Cambay Basin in Gujarat. Gondwana Basin in
		Central India. Krishna-Godavari (KG) Basin in Andhra Pradesh.
		Hence, option (d) Neither 1 nor 2 is the answer.
139	В	1. Article 352 Proclamation of Emergency (4) Every Proclamation
		issued under this article shall be laid before each House of
		Parliament and shall, except where it is a Proclamation revoking
		a previous Proclamation, cease to operate at the expiration of
		one month unless before the expiration of that period it has
		been approved by resolutions of both Houses of Parliament.
		Statement 1 is incorrect as both houses have same power in
		ratification.
		2. Article 75 (3) The Council of Ministers shall be collectively
		responsible to the House of the People. Hence, a no confidence
		motion can be passed only in Loksabha against the Council of
		Ministers. Statement 2 is correct.





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		3. Article 61 Procedure for impeachment of the President has no
		distinction between the two houses of Parliament. It can be
		initiated and charges can be investigated (yes, the term is
		investigation, as mentioned in the Constitution for this) in either
		of the houses, just depending on which house had it started.
		Statement 3 is correct.
		Hence, option (b) 2 only is the answer.
140	Α	• In the revenue administration of Delhi Sultanate, the in-charge
•		of revenue collection was known as 'Amil'. Statement 1 is
		correct.
		• Under the Iqta System, the land of the empire was divided into
		several large and small tracts called Iqta and assigned these
		Iqtas to the soldiers, officers and nobles.
		• It was introduced by Delhi sultans, was originally of Central
		Asian and West Asian origin and was not an ancient indigenous
		institution. Statement 2 is incorrect.
		• The office of "Mir Bakshi" came into existence during the reign of
		the Mughal Emperor Akbar. Mir Bakshi was the title given to the
		head of the Mughal army and his office was responsible for
		maintaining records of the soldiers, their salaries, promotions,
		and appointments. The office also handled the distribution of
		grants, lands, and other rewards to soldiers based on their
		performance. The first Mir Bakshi was appointed by Akbar in
		1574 and the office continued to exist until the decline of the
		Mughal Empire in the 18th century. Statement 3 is incorrect.
		4

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		Hence option A is the answer.
141	С	Correct Answer: (C) 1 and 3 only
·		Statement 1: Correct. ISRO's Venus Orbiter Mission (also called
		"Shukrayaan-1") aims to study the atmosphere, surface processes, and
		dynamics of Venus, along with its surface composition. One of the key
		goals is to explore how the planet's atmosphere and surface interact.
		Statement 2: Incorrect. ISRO's Venus mission will not be the first
		mission to explore Venus. Several missions by other space agencies,
		including NASA (Mariner and Pioneer missions) and the Soviet Union's
		Venera series, have already studied Venus in detail.
		Statement 3: Correct. One of the objectives of the Venus Orbiter
		Mission is to study the interaction of the solar wind with the Venusian
		atmosphere, which can provide insights into how Venus evolved and
		lost most of its water.
142	D	1. Fuel oil (also known as heavy oil, marine fuel, bunker, furnace
•		oil, or gasoil) is a fraction obtained from the distillation of
		petroleum (crude oil). It includes distillates (the lighter fractions)
		and residues (the heavier fractions). Statement 1 is correct.
		2. Marine engines and slow-speed engines for power generation,
		Drying tea leaves, Gas turbines for power generation, Feedstock
		for fertiliser manufacturing, Thermic fluid heaters and hot air
		generators. Statement 2 is correct.
		3. Sulphur is a natural component in crude oil that is present in
		gasoline and diesel unless removed. Furnace oil has high

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		component of sulphur leading to its emission when burned.
		Statement 3 is correct.
		Hence, option (d) 1, 2 and 3 is the answer.
143	Α	Statement 1 regarding Photovoltaics and Solar thermal is
•		correct.
		• Photovoltaics-generates Direct Current (DC), while Solar
		Thermal generates heat energy. Statement 2 is incorrect.
		Many Indian companies are engaged in photovoltaics
		manufacturing. Statement 3 is incorrect.
		Hence, option (a) 1 only is the answer.
144	Α	1. The 14th Finance Commission's recommendations transformed
•		India's fiscal landscape by increasing the states' share of central
		taxes to 42%, empowering them with greater financial
		autonomy. This bolstered state budgets, enabling investments in
		crucial sectors and enhancing fiscal management. The
		decentralized approach aimed to address regional disparities
		and foster overall economic development. Statement 1 is
		correct.
		2. However, it did not make recommendations concerning sector-
		specific grants.The 15th Finance Commission has made
		recommendations concerning sector-specific grants. Statement
		2 is incorrect.
		Hence, option (a) is the answer.
145	P	
145	В	• The first Mongol invasion of India took place in the reign of

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Sultan Shams-ud-din Iltutmish. Statement 1 is incorrect.
• Alauddin established a huge permanent, standing army to
satisfy his ambition of conquest and to protect the country from
Mongol invasion.
• The Mongols attacked at the worst time possible for Alauddin
Khilji – when he was busy laying siege to Chittor. This time the
Mongols traveled light. An army of 12,000 under Targhi's
leadership moved to Delhi in a swift attack; many governors
could not send their troops to Delhi in time.
Alauddin Khilji was forced to retreat to Siri for about two
months. The Mongols attacked and pillaged not only the
surrounding areas, but Delhi itself. Alauddin Khilji continued to
hold the fortress at Siri; Targhi withdrew the siege after a few
months and left the area. Statement 2 is correct.
• The next major Mongol invasion took place after the Khiljis had
been replaced by the Tughlaq dynasty in the Sultanate.
• In 1327 the Chagatai Mongols under Tarmashirin, who had sent
envoys to Delhi to negotiate peace the previous year, sacked the
frontier towns of Lamghan and Multan and besieged Delhi. The
Tughlaq ruler paid a large ransom to spare his Sultanate from
further ravages. Muhammad bin Tughluq asked the Ilkhan Abu
Sa'id to form an alliance against Tarmashirin, who had invaded
Khorasan, but an attack didn't materialize. Tarmashirin was a
Buddhist who later converted to Islam. Religious tensions in the
Chagatai Khanate were a divisive factor among the Mongols.
Statement 3 is incorrect.

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		Hence option B is the answer.
146	Α	1. The Suez Canal and the SUMED Pipeline are strategic routes for
•		Persian Gulf crude oil, petroleum products, and liquefied natural
		gas (LNG) shipments to Europe and North America. Hence,
		statement I is correct.
		2. The Suez Canal and SUMED pipeline are located in Egypt and
		connect the Red Sea with the Mediterranean Sea. Hence,
		statement II is correct.
		Therefore, Both statement I and statement II are correct and statement
		II explains statement I. Hence, option (a) is correct.
147	С	• Vijayanagar was founded in 1336 by Harihara and Bukka of the
		sangama dynasty. They proclaimed their independence and
		founded a new city on the South Bank of the Tungabhadra
		River. It was called Vijayanagar meaning city of victory,
		Vijayanagara was the name of city and an empire. The empire
		stretched from the river Krishna in the north to the extreme
		South of the peninsula, in the Krishna- Tungabhadra doab.
		They undertook their rule as the agent of a Deity PampaDevi
		(Humpi name derived from goddess name).
		(
		Hones ention C is the ensure
		Hence option C is the answer
148	Α	(a) Privileges When there are no privileges for anyone, equality
		will be ensured. The absence of privileges will be related to





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	(b) Restraints The absence of restraints gives freedom. Option
	(b) is incorrect.
	(c) Competition The absence of competition has no relation to
	equality. Option (c) is incorrect.
	(d) Ideology The absence of ideology has no relation to equality.
	Option (d) is incorrect.
	Hence, option (a) Privileges is the answer.
Α	1. Crop diversification refers to the addition of new crops or
	cropping systems to agricultural production on a particular farm
	taking into account the different returns from value-added crops
	with complimentary marketing opportunities.
	2. Legume intensification is one pathway through which small
	landholding farm production may be sustainably increased and
	involves complementing a farmer''s current cropping system by
	incorporating legumes.
	3. Tensiometer is a device for measuring soil water tension.
	Tensiometers are used in irrigation scheduling to help farmers to
	determine when to water. Statement 1, 2 & 3 is correct.
	4. Vertical farming is the practice of growing crops in vertically
	stacked layers. Out of four, first three are considered eco-
	friendly agricultural practices. Statement 4 is incorrect here.
	Hence, Option (a) 1, 2 and 3 is the answer.
В	• A constitutional government places effective restrictions on the





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B	
2	Permaculture can be understood as the growth of agricultural
	ecosystems in a self-sufficient and sustainable way. This form of
	agriculture draws inspiration from nature to develop synergetic
	farming systems based on crop diversity, resilience, natural
	productivity, and sustainability.
	• Statement 1 is correct: Permaculture is a totally integrated
	design system that's modelled on nature. Permaculture farming
	promotes multicropping and integrated farming systems.
	Agroforestry is its example.
	• Chemical farming is more suitable for monoculture cropping
	due to use of crop specific inputs like irrigation, chemical
	fertiliser and harvesting methods.
	• Statement 2 is correct: Chemical fertilizers will make the soil
	less fertile over time, which can lead to serious problems like soil
	salinisation. But such problems are not seen in permaculture
	farming as it relies on organic fertilizers.
	• Statement 3 is incorrect: Chemical farming is based on
	intense use of inputs like Chemical fertilizers and irrigation that
	make the soil less fertile over time, thus restricting its practise
	in semi-arid region. Thus, conventional farming is not suitable
	for semi-arid regions.
	• The concept of permaculture involves well-designed systems
	don't produce waste and permaculture tries to mimic well-
	designed systems. Thus, permaculture tries to take into account
	the local conditions like arid climate. This helps in developing a
	suitable system to ensure sustainable production.
	• Statement 4 is correct. Mulching is an important component
	B

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		of Permaculture systems for promoting maximum efficiency.
		 Chemical farming does not consider it as essential, so farmers in
		general do not use mulching.
		general do not use indicining.
		Hence, (b) 1, 2 and 4 is the answer.
153	С	1. India is the largest groundwater user in the world, with an
		estimated usage of around 251 bcm (billion cubic metres) per
		year, more than a quarter of the global total. It uses an
		estimated 230 cubic kilometers of groundwater per year - over a
		quarter of the global total. According to the United Nations'
		World Water Development Report, 2022', India extracts more
		than a quarter of the world's groundwater withdrawal each year.
		More than 60% of irrigated agriculture and 85% of drinking
		water supplies are dependent on groundwater. Hence,
		statement 1 is correct.
		2. Urban residents increasingly rely on groundwater due to
		unreliable and inadequate municipal water supplies (Because
		89% of Groundwater is used for irrigation purposes). Hence,
		statement 2 is incorrect.
154	Α	• Mughal Empire was divided into Suba ,
		• Suba was further divided into Sarkar , and
		Sarkar was divided further into Pargana and
		 Pargana had various Villages under them.
		Hence, option A is the answer.



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155	D	Examples of GPS technology use-
		1. Mobile phone operations- Cell towers use GPS technology to
		route phone calls. Statement 1 is correct.
		2. Banking Operations-Mobile app to locate nearest ATMs.
		Statement 2 is correct.
		3. Controlling the power grids- GPS is used in the smart grid.
		Statement 3 is correct.
		Following are some general applications of GPS technology -
		1. Tracking objects/person movement
		2. Location determination
		3. Navigation between locations
		4. Timing-precise timing
		5. Mapping-the creation of maps
		Hence, option (d) 1, 2 and 3 is the answer.

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