

IAS PRELIMS SOLVED PAPER-1 2022

Maximum Marks: 200

Total Limit: 2 Hr.

- “Climate Action Tracker” which monitors the emission reduction pledges of different countries is a :
 - Database created by coalition of research organisations
 - Wing of “International Panel of Climate Change”
 - Committee under “United Nations Framework Convention on Climate Change”
 - Agency promoted and financed by United Nations Environment Programme and World Bank
- Consider the following statements :
 - “The Climate Group” is an international non-profit organization that drives climate action by building large networks and runs them.
 - The International Energy Agency in partnership with the Climate Group launched a global initiative “EP100”.
 - EP100 brings together leading companies committed to driving innovation in energy efficiency and increasing competitiveness while delivering on emission reduction goals.
 - Some Indian companies are members of EP100.
 - The International Energy Agency is the Secretariat to the “Under2 Coalition”.Which of the statements given above are correct ?
 - 1, 2, 4 and 5
 - 1, 3 and 4 only
 - 2, 3 and 5 only
 - 1, 2, 3, 4 and 5
- “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 ?
 - The water cycle in wetlands involves surface runoff, subsoil percolation and evaporation.
 - Algae form the nutrient base upon which fish, crustaceans, molluscs, birds, reptiles and mammals thrive.
 - Wetlands play a vital role in maintaining sedimentation balance and soil stabilization.
 - Aquatic plants absorb heavy metals and excess nutrients.
- In the context of WHO Air Quality Guidelines, consider the following statements :
 - The 24-hour mean of $PM_{2.5}$ should not exceed $15 \mu\text{g}/\text{m}^3$ and annual mean of $PM_{2.5}$ should not exceed $5 \mu\text{g}/\text{m}^3$.
 - In a year, the highest levels of ozone pollution occur during the periods of inclement weather.
 - PM_{10} can penetrate the lung barrier and enter the bloodstream.
 - Excessive ozone in the air can trigger asthma.Which of the statements given above are correct ?
 - 1, 3 and 4
 - 1 and 4 only
 - 2, 3 and 4
 - 1 and 2 only
- With reference to “Gucchi” sometimes mentioned in the news, consider the following statements :
 - It is a fungus.
 - It grows in some Himalayan forest areas.
 - It is commercially cultivated in the Himalayan foothills of north-eastern India.Which of the statements given above is/are correct ?
 - 1 only
 - 3 only
 - 1 and 2
 - 2 and 3
- With reference to polyethylene terephthalate, the use of which is so widespread in our daily lives, consider the following statements :
 - Its fibres can be blended with wool and cotton fibres to reinforce their properties.
 - Containers made of it can be used to store any alcoholic beverage.
 - Bottles made of it can be recycled into other products.
 - Articles made of it can be easily disposed of by incineration without causing greenhouse gas emissions.Which of the statements given above are correct ?
 - 1 and 3
 - 2 and 4
 - 1 and 4
 - 2 and 3
- Which of the following is not a bird ?
 - Golden Mahseer
 - Indian Nightjar
 - Spoonbill
 - White Ibis
- Which of the following are nitrogen-fixing plants ?
 - Alfalfa
 - Amaranth
 - Chickpea
 - Clover
 - Purslane (Kulfa)
 - SpinachSelect the correct answer using the code given below :
 - 1, 3 and 4 only
 - 1, 3, 5 and 6 only
 - 2, 4, 5 and 6 only
 - 1, 2, 4, 5 and 6
- “Biorock technology” is talked about in which one of the following situations ?
 - Restoration of damaged coral reefs
 - Development of building materials using plant residues
 - Identification of areas for exploration/extraction of shale gas
 - Providing salt licks for wild animals in forests/protected areas
- The “Miyawaki method” is well known for the :
 - Promotion of commercial farming in arid and semi-arid areas
 - Development of gardens using genetically modified flora
 - Creation of mini forests in urban areas
 - Harvesting wind energy on coastal areas and on sea surfaces
- Consider the following :
 - AarogyaSetu
 - CoWIN
 - DigiLocker
 - DIKSHAWhich of the above are built on top of open-source digital platforms ?
 - 1 and 2 only
 - 2, 3 and 4 only
 - 1, 3 and 4 only
 - 1, 2, 3 and 4
- With reference to Web 3.0, consider the following statements :
 - Web 3.0 technology enables people to control their own data.

2. In Web 3.0 world, there can be blockchain based social networks.
3. Web 3.0 is operated by users collectively rather than a corporation.
- 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
13. With reference to “Software as a Service (SaaS)”, consider the following statements :
1. SaaS buyers can customise the user interface and can change data fields.
 2. SaaS users can access their data through their mobile devices.
 3. Outlook, Hotmail and Yahoo! Mail are forms of SaaS.
- 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
14. Which one of the following statements best reflects the idea behind the “Fractional Orbital Bombardment System” often talked about in media ?
 (a) A hypersonic missile is launched into space to counter the asteroid approaching the Earth and explode it in space.
 (b) A spacecraft lands on another planet after making several orbital motions.
 (c) A missile is put into a stable orbit around the Earth and deorbits over a target on the Earth.
 (d) A spacecraft moves along a comet with the same speed and places a probe on its surface.
15. Which one of the following is the context in which the term “qubit” is mentioned ?
 (a) Cloud Services
 (b) Quantum Computing
 (c) Visible Light Communication Technologies
 (d) Wireless Communication Technologies
16. Consider the following communication technologies:
 1. Closed-circuit Television
 2. Radio Frequency Identification
 3. Wireless Local Area Network
- Which of the above are considered Short-Range devices/ technologies ?
 (a) 1 and 2 only (b) 2 and 3 only
 (c) 1 and 3 only (d) 1, 2 and 3
17. Consider the following statements :
1. Biofilms can form on medical implants within human tissues.
 2. Biofilms can form on food and food processing surfaces.
 3. Biofilms can exhibit antibiotic resistance.
- 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
18. Consider the following statements in respect of probiotics :
1. Probiotics are made of both bacteria and yeast.
 2. The organisms in probiotics are found in foods we ingest but they do not naturally occur in our gut.
 3. Probiotics help in the digestion of milk sugars.
- Which of the statements given above is/are correct ?
 (a) 1 only (b) 2 only
 (c) 1 and 3 (d) 2 and 3
19. In the context of vaccines manufactured to prevent COVID-19 pandemic, consider the following statements :
1. The Serum Institute of India produced COVID-19 vaccine named Covishield using mRNA platform.
 2. Sputnik V vaccine is manufactured using vector based platform.
 3. COVAXIN is an inactivated pathogen based vaccine.
- Which of the statements given above are correct ?
 (a) 1 and 2 only (b) 2 and 3 only
 (c) 1 and 3 only (d) 1, 2 and 3
20. If a major solar storm (solar flare) reaches the Earth, which of the following are the possible effects on the Earth?
 1. GPS and navigation systems could fail.
 2. Tsunamis could occur at equatorial regions.
 3. Power grids could be damaged.
 4. Intense auroras could occur over much of the Earth.
 5. Forest fires could take place over much of the planet.
 6. Orbits of the satellites could be disturbed.
 7. Shortwave radio communication of the aircraft flying over polar regions could be interrupted.
- Select the correct answer using the code given below :
 (a) 1, 2, 4 and 5 only (b) 2, 3, 5, 6 and 7 only
 (c) 1, 3, 4, 6 and 7 only (d) 1, 2, 3, 4, 5, 6 and 7
21. Consider the following statements :
1. Pursuant to the report of H.N. Sanyal Committee, the Contempt of Courts Act, 1971 was passed.
 2. The Constitution of India empowers the Supreme Court and the High Courts to punish for contempt of themselves.
 3. The Constitution of India defines Civil Contempt and Criminal Contempt.
 4. 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, 2 and 4
 (c) 3 and 4 only (d) 3 only
22. With reference to India, consider the following statements :
1. Government law officers and legal firms are recognised as advocates, but corporate lawyers and patent attorneys are excluded from recognition as advocates.
 2. Bar Councils have the power to lay down the rules relating to legal education and recognition of law colleges.
- Which of the statements given above is/are correct?
 (a) 1 only (b) 2 only
 (c) Both 1 and 2 (d) Neither 1 nor 2
23. Consider the following statements :
1. A bill amending the Constitution requires a prior recommendation of the President of India.
 2. When a Constitution Amendment Bill is presented to the President of India, it is obligatory for the President of India to give his/her assent.
 3. A Constitution Amendment Bill must be passed by both the Lok Sabha and the Rajya Sabha by a special majority and there is no provision for joint sitting.
- Which of the statements given above are correct ?
 (a) 1 and 2 only (b) 2 and 3 only
 (c) 1 and 3 only (d) 1, 2 and 3
24. Consider the following statements :
1. The Constitution of India classifies the ministers into four ranks viz. Cabinet Minister, Minister of State with Independent Charge, Minister of State and Deputy Minister.

2. The total number of ministers in the Union Government, including the Prime Minister, shall not exceed 15 percent of the total number of members in the Lok Sabha.
Which of the statements given above is/are correct ?
(a) 1 only (b) 2 only
(c) Both 1 and 2 (d) Neither 1 nor 2
25. Which of the following is/are the exclusive power(s) of Lok Sabha ?
1. To ratify the declaration of Emergency
2. To pass a motion of no-confidence against the Council of Ministers
3. To impeach the President of India
Select the correct answer using the code given below :
(a) 1 and 2 (b) 2 only
(c) 1 and 3 (d) 3 only
26. With reference to anti-defection law in India, consider the following statements :
1. The law specifies that a nominated legislator cannot join any political party within six months of being appointed to the House.
2. The law does not provide any time-frame within which the presiding officer has to decide a defection case.
Which of the statements given above is/are correct ?
(a) 1 only (b) 2 only
(c) Both 1 and 2 (d) Neither 1 nor 2
27. Consider the following statements :
1. Attorney General of India and Solicitor General of India are the only officers of the Government who are allowed to participate in the meetings of the Parliament of India.
2. According to the Constitution of India, the Attorney General of India submits his resignation when the Government which appointed him resigns.
Which of the 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 writs issued by the Courts in India, consider the following statements :
1. Mandamus will not lie against a private organisation unless it is entrusted with a public duty.
2. Mandamus will not lie against a Company even though it may be a Government Company.
3. Any public minded person can be a petitioner to move the Court to obtain the writ of Quo Warranto.
Which of the statements given above are correct ?
(a) 1 and 2 only (b) 2 and 3 only
(c) 1 and 3 only (d) 1, 2 and 3
29. With reference to Ayushman Bharat Digital Mission, consider the following statements :
1. Private and public hospitals must adopt it.
2. As it aims to achieve universal health coverage, every citizen of India should be part of it ultimately.
3. It has seamless portability across the country.
Which of the statements given above is/are correct ?
(a) 1 and 2 only (b) 3 only
(c) 1 and 3 only (d) 1, 2 and 3
30. With reference to Deputy Speaker of Lok Sabha, consider the following statements :
1. As per the Rules of Procedure and Conduct of Business in Lok Sabha, the election of Deputy Speaker shall be held on such date as the Speaker may fix.
2. There is a mandatory provision that 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.
4. The well established parliamentary practice regarding the appointment of Deputy Speaker is that the motion is moved by the Speaker and duly seconded by the Prime Minister.
Which of the statements given above are correct ?
(a) 1 and 3 only (b) 1, 2 and 3
(c) 3 and 4 only (d) 2 and 4 only
31. "Rapid Financing Instrument" and "Rapid Credit Facility" are related to the provisions of lending by which one of the following ?
(a) Asian Development Bank
(b) International Monetary Fund
(c) United Nations Environment Programme Finance Initiative
(d) World Bank
32. With reference to the Indian economy, consider the following statements :
1. An increase in Nominal Effective Exchange Rate (NEER) indicates the appreciation of rupee.
2. An increase in the Real Effective Exchange Rate (REER) indicates an improvement in trade competitiveness.
3. An increasing trend in domestic inflation relative to inflation in other countries is likely to cause an increasing divergence between NEER and REER.
Which of the above statements are correct ?
(a) 1 and 2 only (b) 2 and 3 only
(c) 1 and 3 only (d) 1, 2 and 3
33. With reference to the Indian economy, consider the following statements :
1. If the inflation is too high, Reserve Bank of India (RBI) is likely to buy government securities.
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
34. With reference to the "G20 Common Framework", consider the following statements:
1. It is an initiative endorsed by the G20 together with the Paris Club.
2. It is an initiative to support Low Income Countries with unsustainable debt.
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
35. With reference to the Indian economy, what are the advantages of "Inflation-Indexed Bonds (IIBs)" ?
1. Government can reduce the coupon rates on its borrowing by way of IIBs.
2. IIBs provide protection to the investors from uncertainty regarding inflation.

3. The interest received as well as capital gains on IIBs are not taxable.
Which of the statements given above are correct ?
(a) 1 and 2 only (c) 1 and 3 only
(b) 2 and 3 only (d) 1, 2 and 3
36. With reference to foreign-owned e-commerce firms operating in India, which of the following statements is/are correct ?
1. They can sell their own goods in addition to offering their platforms as market-places.
2. The degree to which they can own big sellers on their platforms is limited.
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
37. Which of the following activities constitute real sector in the economy ?
1. Farmers harvesting their crops
2. Textile mills converting raw cotton into fabrics
3. A commercial bank lending money to a trading company
4. A corporate body issuing Rupee Denominated Bonds overseas
Select the correct answer using the code given below :
(a) 1 and 2 only (b) 2, 3 and 4 only
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4
38. 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 transfers the proceeds to India
(d) A foreign company transfers shares and such shares derive their substantial value from assets located in India
39. With reference to the expenditure made by an organisation or a company, which of the following statements is/are correct ?
1. Acquiring new technology is capital expenditure.
2. Debt financing is considered capital expenditure, while equity financing is considered revenue expenditure.
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
40. With reference to the Indian economy, consider the following statements :
1. A share of the household financial savings goes towards government borrowings.
2. 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
41. Among the following crops, which one is the most important anthropogenic source of both methane and nitrous oxide?
(a) Cotton (b) Rice
(c) Sugarcane (d) Wheat
42. "System of Rice Intensification" of cultivation, in which alternate wetting and drying of rice fields is practised, results in :
1. Reduced seed requirement
2. Reduced methane production
3. Reduced electricity consumption
Select the correct answer using the code given below :
(a) 1 and 2 only (b) 2 and 3 only
(c) 1 and 3 only (d) 1, 2 and 3
43. Which one of the following lakes of West Africa has become dry and turned into a desert ?
(a) Lake Victoria (b) Lake Faguibine
(c) Lake Oguta (d) Lake Volta
44. Gandikota canyon of South India was created by which one of the following rivers ?
(a) Cauvery (b) Manjira
(c) Pennar (d) Tungabhadra
45. Consider the following pairs :

Peak	Mountains
1. Namcha Barwa	— Garhwal Himalaya
2. Nanda Devi	— Kumaon Himalaya
3. Nokrek	— Sikkim Himalaya

Which of the pairs given above is/are correctly matched?
(a) 1 and 2 (b) 2 only
(c) 1 and 3 (d) 3 only
46. The term "Levant" often heard in the news roughly corresponds to which of the following regions ?
(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
47. Consider the following countries :
1. Azerbaijan 2. Kyrgyzstan
3. Tajikistan 4. Turkmenistan
5. Uzbekistan
Which of the above have borders with Afghanistan ?
(a) 1, 2 and 5 only (b) 1, 2, 3 and 4 only
(c) 3, 4 and 5 only (d) 1, 2, 3, 4 and 5
48. With reference to India, consider the following statements:
1. Monazite is a source of rare earths.
2. Monazite contains thorium.
3. Monazite occurs naturally in the entire Indian coastal sands in India.
4. In India, Government bodies only can process or export monazite.
Which of the statements given above are correct ?
(a) 1, 2 and 3 only
(b) 1, 2 and 4 only
(c) 3 and 4 only
(d) 1, 2, 3 and 4
49. In the northern hemisphere, the longest day of the year normally occurs in the :
(a) First half of the month of June
(b) Second half of the month of June
(c) First half of the month of July
(d) Second half of the month of July

50. Consider the following pairs :

Wetland/Lake	Location
1. Hokera Wetland	— Punjab
2. Renuka Wetland	— Himachal Pradesh
3. Rudrasagar Lake	— Tripura
4. Sasthamkotta Lake	— Tamil Nadu

How many pairs given above are correctly matched ?

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

51. Consider the following pairs :

Site of Ashoka's major rock edicts	Location in the State of
1. Dhauli	— Odisha
2. Erragudi	— Andhra Pradesh
3. Jaugada	— Madhya Pradesh
4. Kalsi	— Karnataka

How many pairs given above are correctly matched ?

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

52. Consider the following pairs

King	Dynasty
1. Nannuka	— Chandela
2. Jayashakti	— Paramara
3. Nagabhata II	— Gurjara-Pratihara
4. Bhoja	— Rashtrakuta

How many pairs given above are correctly matched ?

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

53. Which one of the following statements about Sangam literature in ancient South India is 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 reference to warrior ethic.
(d) Sangam literature refers to magical forces as irrational.

54. "Yogavasishta" was translated into Persian by Nizamuddin Panipati during the reign of:

- (a) Akbar
(b) Humayun
(c) Shahjahan
(d) Aurangzeb

55. The world's second tallest statue in sitting pose of Ramanuja was inaugurated by the Prime Minister of India at Hyderabad recently. Which one of the following statements correctly represents the teachings of Ramanuja ?

- (a) The best means of salvation was devotion.
(b) Vedas are eternal, self-existent and wholly authoritative.
(c) Logical arguments were essential means for the highest bliss.
(d) Salvation was to be obtained through meditation.

56. The Prime Minister recently inaugurated the new Circuit House near Somnath Temple at Veraval. Which of the following statements are correct regarding Somnath Temple ?

1. Somnath Temple is one of the Jyotirlinga shrines.
2. A description of Somnath Temple was given by Al-Biruni.
3. PranPratishtha 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

57. Which one of the following statements best describes the role of B cells and T cells in the human body ?

- (a) They protect the body from environmental allergens.
(b) They alleviate the body's pain and inflammation.
(c) They act as immunosuppressants in the body.
(d) They protect the body from the diseases caused by pathogens.

58. Consider the following statements :

1. Other than those made by humans, nanoparticles do not exist in nature.
2. Nanoparticles of some metallic oxides are used in the manufacture of some cosmetics.
3. Nanoparticles of some commercial products which enter the environment are unsafe for humans.

Which of the statements given above is/are correct ?

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

59. Consider the following statements :

DNA Barcoding can be a tool to :

1. assess the age of a plant or animal.
2. distinguish among species that look alike.
3. identify undesirable animal or plant materials in processed foods.

Which of the statements given above is/are correct ?

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

60. Consider the following :

1. Carbon monoxide
2. Nitrogen oxide
3. Ozone
4. Sulphur dioxide

Excess of which of the above in the environment is/are cause(s) of acid rain ?

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

61. 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

62. Consider the following statements :

1. Bidibidi is a large refugee settlement in north-western Kenya.
2. Some people who fled from South Sudan civil war live in Bidibidi.
3. Some people who fled from civil war in Somalia live in Dadaab refugee complex in Kenya.

Which of the statements given above is/are correct ?

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

63. Consider the following countries :

1. Armenia
2. Azerbaijan
3. Croatia
4. Romania
5. Uzbekistan

- Which of the above are members of the Organization of Turkic States ?
 (a) 1, 2 and 4 (b) 1 and 3
 (c) 2 and 5 (d) 3, 4 and 5
64. Consider the following statements :
- Gujarat has the largest solar park in India.
 - Kerala has a fully solar powered International Airport.
 - Goa has the largest floating solar photovoltaic project in India.
- Which of the statements given above is/are correct ?
 (a) 1 and 2 (b) 2 only
 (c) 1 and 3 (d) 3 only
65. With reference to the United Nations Convention on the Law of Sea, consider the following statements :
- A coastal state has the right to establish the breadth of its territorial sea up to a limit not exceeding 12 nautical miles, measured from baseline determined in accordance with the convention.
 - Ships of all states, whether coastal or land-locked, enjoy the right of innocent passage through the territorial sea.
 - The Exclusive Economic Zone shall not extend beyond 200 nautical miles from the baseline from which the breadth of the territorial sea is measured.
- Which of the statements given above are correct ?
 (a) 1 and 2 only (b) 2 and 3 only
 (c) 1 and 3 only (d) 1, 2 and 3
66. Which one of the following statements best reflects the issue with Senkaku Islands, sometimes mentioned in the news ?
 (a) It is generally believed that they are artificial islands made by a country around South China Sea.
 (b) China and Japan engage in maritime disputes over these islands in East China Sea. -
 (c) A permanent American military base has been set up there to help Taiwan to increase its defence capabilities.
 (d) Though International Court of Justice declared them as no man's land, some South-East Asian countries claim them.
67. Consider the following pairs :
- | Country | Important reason for being in the news recently |
|------------|---|
| 1. Chad | — Setting up of permanent military base by China |
| 2. Guinea | — Suspension of Constitution and Government by military |
| 3. Lebanon | — Severe and prolonged economic depression |
| 4. Tunisia | — Suspension of Parliament by President |
- How many pairs given above are correctly matched ?
 (a) Only one pair (b) Only two pairs
 (c) Only three pairs (d) None of these
68. Consider the following pairs :
- | Region often mentioned in the news | Country |
|------------------------------------|------------|
| 1. Anatolia | — Turkey |
| 2. Amhara | — Ethiopia |
| 3. Cabo Delgado | — Spain |
| 4. Catalonia | — Italy |
- How many pairs given above are correctly matched ?
 (a) Only one pair (b) Only two pairs
 (c) Only three pairs (d) All four pairs
69. With reference to Indian laws about wildlife protection, consider the following statements :
- Wild animals are the sole property of the government.
 - When a wild animal is declared protected, such animal is entitled for equal protection whether it is found in protected areas or outside.
 - Apprehension of a protected wild animal becoming a danger to human life is sufficient ground for its capture or killing.
- Which of the statements given above is/are correct ?
 (a) 1 and 2 (b) 2 only
 (c) 1 and 3 (d) 3 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. Consider the following statements :
- Tight monetary policy of US Federal Reserve could lead to capital flight.
 - Capital flight may increase the interest cost of firms with existing External Commercial Borrowings (ECBs).
 - Devaluation of domestic currency decreases the currency risk associated with ECBs.
- 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
72. Consider the following States :
- Andhra Pradesh
 - Kerala
 - Himachal Pradesh
 - Tripura
- How many of the above are generally known as tea-producing States ?
 (a) Only one State (b) Only two States
 (c) Only three States (d) All four States
73. Consider the following statements :
- In India, credit rating agencies are regulated by Reserve Bank of India.
 - The rating agency popularly known as ICRA is a public limited company.
 - Brickwork Ratings is an Indian credit rating agency.
- 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
74. With reference to the 'Banks Board Bureau (BBB)', which of the following statements are correct ?
- The Governor of RBI is the Chairman of BBB.
 - BBB recommends for the selection of heads for Public Sector Banks.
 - BBB helps the Public Sector Banks in developing strategies and capital raising plans.
- 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
75. With reference to Convertible Bonds, consider the following statements :
- As there is an option to exchange the bond for equity, Convertible Bonds pay a lower rate of interest.
 - The option to convert to equity affords the bondholder a degree of indexation to rising consumer prices.
- 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
76. Consider the following :
1. Asian Infrastructure Investment Bank
2. Missile Technology Control Regime
3. Shanghai Cooperation Organisation
India is a member of which of the above ?
(a) 1 and 2 only (b) 3 only
(c) 2 and 3 only (d) 1, 2 and 3
77. Consider the following statements :
1. Vietnam has been one of the fastest growing economies in the world in the recent years.
2. Vietnam is led by a multi-party political system.
3. Vietnam's economic growth is linked to its integration with global supply chains and focus on exports.
4. For a long time Vietnam's low labour costs and stable exchange rates have attracted global manufacturers.
5. Vietnam has the most productive e-service sector in the Indo-Pacific region.
Which of the statements given above are correct ?
(a) 2 and 4 (b) 3 and 5
(c) 1, 3 and 4 (d) 1 and 2
78. In India, which one of the following is responsible for maintaining price stability by controlling inflation ?
(a) Department of Consumer Affairs
(b) Expenditure Management Commission
(c) Financial Stability and Development Council
(d) Reserve Bank of India
79. With reference to Non-Fungible Tokens (NFTs), consider the following statements :
1. They enable the digital representation of physical assets.
2. They are unique cryptographic tokens that exist on a blockchain.
3. They can be traded or exchanged at equivalency and therefore can be used as a medium of commercial transactions.
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
80. Consider the following pairs :
- | Reservoirs | States |
|-----------------|------------------|
| 1. Ghataprabha | — Telangana |
| 2. Gandhi Sagar | — Madhya Pradesh |
| 3. Indira Sagar | — Andhra Pradesh |
| 4. Maithon | — Chhattisgarh |
- How many pairs given above are not correctly matched ?
(a) Only one pair (b) Only two pairs
(c) Only three pairs (d) All four pairs
81. In the Government of India Act 1919, the functions of Provincial Government were divided into "Reserved" and "Transferred" subjects. Which of the following were treated as "Reserved" subjects ?
1. Administration of Justice 2. Local Self-Government
3. Land Revenue 4. Police
Select the correct answer using the code given below :
(a) 1, 2 and 3 (b) 2, 3 and 4
(c) 1, 3 and 4 (d) 1, 2 and 4
82. In medieval India, the term "Fanam" referred to:
(a) Clothing (b) Coins
(c) Ornaments (d) Weapons
83. Consider the following freedom fighters :
1. Barindra Kumar Ghosh
2. Jogesh Chandra Chatterjee
3. Rash Behari Bose
Who of the above was/were actively associated with the Ghadar Party ?
(a) 1 and 2 (b) 2 only
(c) 1 and 3 (d) 3 only
84. With reference to the proposals of Cripps Mission, consider the following statements :
1. The Constituent Assembly would have members nominated by the Provincial Assemblies as well as the Princely States.
2. Any Province, which is not prepared to accept the new Constitution would have the right to sign a separate agreement with Britain regarding its future status.
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
85. With reference to Indian history, consider the following texts :
1. Nettipakarana 2. Parishishtaparvan
3. Avadanashataka
4. Trishashtilakshana Mahapurana
Which of the above are Jaina texts ?
(a) 1,2 and 3 (b) 2 and 4 only
(c) 1,3 and 4 (d) 2,3 and 4
86. With reference to Indian history, consider the following pairs:
Historical person **Known as**
1. Aryadeva — Jaina scholar
2. Dignaga — Buddhist scholar
3. Nathamuni — Vaishnava scholar
How many pairs given above are correctly matched ?
(a) None of the pairs (b) Only one pair
(c) Only two pairs (d) All three pairs
87. With reference to Indian history, consider the following statements :
1. The first Mongol invasion of India happened during the reign of Jalal-ud-din Khalji.
2. During the reign of Ala-ud-din Khalji, one Mongol assault marched up to Delhi and besieged the city.
3. 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 (b) 2 only
(c) 1 and 3 (d) 3 only
88. With reference to Indian history, who of the following were known as "Kulah-Daran"?
(a) Arab merchants (b) Qalandars
(c) Persian calligraphists (d) Sayyids
89. With reference to Indian history, consider the following statements :
1. The Dutch established their factories/warehouses on the east coast on lands granted to them by Gajapati rulers.
2. Alfonso de Albuquerque captured Goa from the Bijapur Sultanate.
3. The English East India Company established a factory at Madras on a plot of land leased from a representative of the Vijayanagara empire.

- 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
90. According to Kautilya's Arthashastra, which of the following are correct ?
 1. A person could be a slave as a result of a judicial punishment.
 2. If a female slave bore her master a son, she was legally free.
 3. If a son born to a female slave was fathered by her master, the son was entitled to the legal status of the master's son.
 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
91. In India, which one of the following compiles information on industrial disputes, closures, retrenchments and lay-offs in factories employing workers?
 (a) Central Statistics Office
 (b) Department for Promotion of Industry and Internal Trade
 (c) Labour Bureau
 (d) National Technical Manpower Information System
92. In India, what is the role of the Coal Controller's Organization (CCO) ?
 1. CCO is the major source of Coal Statistics in Government of India.
 2. It monitors progress of development of Captive Coal/Lignite blocks.
 3. It hears any objection to the Government's notification relating to acquisition of coal-bearing areas.
 4. It ensures that coal mining companies deliver the coal to end users in the prescribed time.
 Select the correct answer using the code given below :
 (a) 1, 2 and 3 (b) 3 and 4 only
 (c) 1 and 2 only (d) 1, 2 and 4
93. If a particular area is brought under the Fifth Schedule of the Constitution of India, which one of the following statements best reflects the consequence of it ?
 (a) This would prevent the transfer of land of tribal people to non-tribal people.
 (b) This would create a local self-governing body in that area.
 (c) This would convert that area into a Union Territory.
 (d) The State having such areas would be declared a Special Category State.
94. Consider the following statements :
 1. The India Sanitation Coalition is a platform to promote sustainable sanitation and is funded by the Government of India and the World Health Organization.
 2. The National Institute of Urban Affairs is an apex body of the Ministry of Housing and Urban Affairs in Government of India and provides innovative solutions to address the challenges of Urban India.
 Which of the statements given above is/are correct ?
 (a) 1 only (b) 2 only
 (c) Both 1 and 2 (d) Neither 1 nor 2
95. Which one of the following has been constituted under the Environment (Protection) Act, 1986 ?
 (a) Central Water Commission
 (b) Central Ground Water Board
 (c) Central Ground Water Authority
 (d) National Water Development Agency
96. With reference to the "United Nations Credentials Committee", consider the following statements :
 1. It is a committee set up by the UN Security Council and works under its supervision.
 2. It traditionally meets in March, June and September every year.
 3. It assesses the credentials of all UN members before submitting a report to the General Assembly for approval.
 Which of the statements given above is/are correct ?
 (a) 3 only (b) 1 and 3
 (c) 2 and 3 (d) 1 and 2
97. Which one of the following statements best describes the 'Polar Code' ?
 (a) It is the international code of safety for ships operating in polar waters.
 (b) It is the agreement of the countries around the North Pole regarding the demarcation of their territories in the polar region.
 (c) It is a set of norms to be followed by the countries whose scientists undertake research studies in the North Pole and South Pole.
 (d) It is a trade and security agreement of the member countries of the Arctic Council.
98. With reference to the United Nations General Assembly, consider the following statements :
 1. The UN General Assembly can grant observer status to the non-member States.
 2. Inter-governmental organisations can seek observer status in the UN General Assembly.
 3. Permanent Observers in the UN General Assembly can maintain missions at the UN headquarters.
 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
99. With reference to the "Tea Board" in India, consider the following statements :
 1. The Tea Board is a statutory body.
 2. It is a regulatory body attached to the Ministry of Agriculture and Farmers Welfare.
 3. The Tea Board's Head Office is situated in Bengaluru.
 4. The Board has overseas offices at Dubai and Moscow.
 Which of the statements given above are correct ?
 (a) 1 and 3 (b) 2 and 4
 (c) 3 and 4 (d) 1 and 4
100. Which one of the following best describes the term "greenwashing" ?
 (a) Conveying a false impression that a company's products are eco-friendly and environmentally sound
 (b) Non-inclusion of ecological/environmental costs in the Annual Financial Statements of a country
 (c) Ignoring the disastrous ecological consequences while undertaking infrastructure development
 (d) Making mandatory provisions for environmental costs in a government project/programme

ANSWERS AND EXPLANATIONS

1. (a) Option (a) is correct: The Climate Action Tracker is an independent scientific analysis that tracks government climate action and measures it against the globally agreed Paris Agreement. It is a collaboration of two organisations, Climate Analytics and New Climate Institute.
2. (b) Statement 5 is wrong: The Under 2 Coalition is an international non-profit founded in 2003, with offices in London, New York, New Delhi, Amsterdam and Beijing. The International Energy Agency is not providing Secretariat support to this organisation. #5 is wrong. Therefore by elimination the answer is (b).
3. (d) Option (d) is correct: kidney produce urine by removing toxic waste products and excess water from the body. Similarly the aquatic plants in the wetland remove the heavy metal and other toxic substances.
4. (b) Statement 2 is not correct: Ozone levels are typically highest in presence of sunlight. Inclement weather means unpleasant weather with cold wind and rain. So, Ozone pollution will low during inclement weather. (c) and (d) eliminated. Statment 3 is not correct: Particular matter 2.5 (PM2.5) and not PM10) can penetrate the human lung barrier and enter the blood system. So (a) is eliminated. Therefore by elimination the answer is (b).
5. (c) Statement 1 is correct: Guchhi mushroom is a species of fungus in the family Morchellaceae of the Ascomycota. Statement 2 is correct- it is growth in the foothills in Himachal Pradesh, Uttaranchal, and Jammu and Kashmir. Statement 3 is not correct: These mushrooms cannot be cultivated commercially because they grow in conifer forests across temperature regions so villagers have to collect them from forest.
6. (a) Statement 2 is not correct: PET Containers are not recommended for storage of any alcoholic beverage. Statement 4 is not correct: Burning of PET bottles can cause GHG emission. Therefore by elimination the answer is (a).
7. (a) Option (a) is correct: Golden Mahseer is a fish and not a bird. It was in news because it was removed from the IUCN list in 2021-June.
8. (a) Option (a) is correct: Rhizobium is rod-shaped nitrogen-fixing bacteria live symbiotically within the roots of several leguminous plants such as alfalfa, sweet clover, sweet pea, lentils etc. The amaranth plant is a grain and green crop plant, because it is not a pulse crop so do not nitrogen fixing mechanism. Spinach is a leaf plant, it consumes nitrogen, it doesn't fix nitrogen. So #6 is wrong, Therefore by elimination the answer is (a).
9. (a) Option (a) is correct: Biorocks are sunken steel frames connected to a low voltage current to help in the regrowth of broken fragments of live coral.
10. (c) Option (c) is correct: Miyawaki is an afforestation method based on the work of Japanese botanist Akira Miyawaki in the 1980s. The technique compresses layers of a forest – shrubs, trees, canopies – on small plots of land, turning them into tinyurban forests.
11. (d) Option (d) is correct: Digilocker, Diksha, Aarogya Setu, the Covid-19 vaccination platform CoWIN — built on top of open-source digital platforms so all four are correct.
12. (d) Web 3.0 relies on Blockchain-based decentralised web giving more privacy to the people over their data. so all 3 statements are correct.
13. (d) Software-as-a-Service (SaaS) is a way of delivering applications over the Internet—as a service. Instead of installing and maintaining software on your device. All 3 statements are correct. \ \
14. (c) The Fractional Orbital Bombardment System (FOBS) was developed by the USSR in 1960s to launch nuclear missiles from space.
15. (b) Option (b) is correct: Just as a bit is the basic unit of information in a classical computer, a qubit is the basic unit of information in a quantum computer.
16. (d) Short Range Devices (SRD) are radio devices that offer a low risk of interference with other radio services, usually because their transmitted power and range is low. All three options are correct examples of SRD.
17. (d) Biofilm is a complex structure of microbiome that adhere to the surface. They can form on medical implants as well as food surface and exhibit antibiotic resistance. So, all three statements are correct.
18. (c) Statement 1 is correct: Probiotics are defined as living bacteria that, when administered in adequate amounts, confer a health benefit on the host. (b) and (d) are eliminated. Statement 3 is correct: probiotics aid the digestion of lactose (milk sugar). So Answer is (c).
19. (b) Statement 1 is wrong: Covishield does not use mRNA it uses viral vector platform. Therefore by elimination the answer is (b).
20. (c) Tsunamis occur due to earthquake in the ocean. Tsunamis donot occur by the solar flares. Similarly forest fire occurring over much of the planet is also a hyperbole wrong statement. Therefore #2 and #5 are wrong, by elimination the answer is (c).
21. (b) Statement 3 is wrong. It is not the Constitution but the THE CONTEMPT OF COURTS ACT, 1971 Define is the Civil Contempt and Criminal Contempt. → Option (c) and (d) eliminated. We are left with 50:50 between A or B. Statement 4 is right- the Parliament is vested with the powers to make laws on Contempt of Court - Therefore by elimination the answer is (b).
22. (b) Statement 1 is wrong: Advocates are the only recognized class of persons entitled to Practice the profession of Law. Legal firms are not recognized as advocates. Statement 2 is correct: The Bar Council of India regulates the law education in India.
23. (b) Statement 1 is wrong: Constitution Amendment Bills donot require President's recommendation. Statement 2 and 3 are correct as per Article 368
24. (b) Statement 1 is wrong: Article 74: There shall be a Council of Ministers with the Prime Minister at the helm.

- But different types of ministers and not mentioned in the constitution. Statement 2 is correct: as per 91st Amendment to the Constitution of India.
25. (b) Statement 1 is wrong: Article 352: Every Emergency Proclamation issued needs to be laid before each House of Parliament Statement 2 is correct: Article 75(3): The Council of Ministers shall be collectively responsible to the Lok Sabha. So no-confidence motion requires approval of Lok Sabha only. Statement 3 is wrong: Article 61: If a President is to be impeached, the charge shall be framed by either House of Parliament.
 26. (b) Statement 1 is wrong Schedule 10: If a nominated member joins any political party after the expiry of six months from joining then he'll be disqualified. Statement 2 is correct. No timeline is prescribed.
 27. (d) Statement 1 is wrong Article 88: Attorney General of India shall have the right to speak and participate in either House but without right to vote. No mention of Solicitor General of India. Statement 2 is wrong Article 76: The Attorney General shall hold office during the pleasure of the President. So Attorney General need not resign if the government resigns.
 28. (c) Statement 1 is right and Statement 2 is wrong Mandamus literally means "Command". It is thus an order of a superior court commanding a person holding a public office or a public authority. Statement 3 is correct Quo Warranto is a writ or legal action requiring a person to show by what warrant an office or franchise is held, claimed, or exercised. Any public minded person can file this petition.
 29. (b) Statement 1 is wrong: It is not 'must' / compulsory to adopt for pvt hospital. So #1 is wrong, by elimination we are left with Ans.(b).
 30. (a) Statement 4 is wrong- There is no parliamentary practice requiring the PM to second the motion. (c) and (d) eliminated. Statement 2 is wrong- there is no such rule requiring the deputy speaker to be from either the principal opposition party or the ruling party. (b) option eliminated. Therefore by elimination the answer is (a).
 31. (b) Rapid Financing Instrument (RFI) is available to all member countries of the International Monetary Fund (IMF) to provide rapid and low-access financial assistance to member countries facing an urgent balance of payments (BoP). This was in news due to Sri Lanka's financial crisis.
 32. (c) An increase in a nation's REER indicates that its exports are becoming more expensive and its imports are becoming cheaper. It is losing its trade competitiveness. So #2 is wrong, so by elimination answer is (c).
 33. (b)
 34. (c) Common Framework for debt treatment beyond the DSSI (Common Framework) is an initiative endorsed by the G20, together with the Paris Club, last November to support, in a structural manner, Low Income Countries with unsustainable debt. So Both statements are correct there for answer is (c).
 35. (a) No tax exemptions given on such bonds. Statement#3 is wrong and therefore By elimination, answer is (a)
 36. (b) Statement 1 is wrong: As FDI in inventory model is prohibited. Statement 2 is correct: Any big sellers can not have more than the 25% of the total sales on e-commerce platform. So Answer is (b).
 37. (a) The question seems to be asking about the contrast between the financial sector and the real sector. Financial sector deals with providing finance through debt and equity, whereas real sector deals with production of goods and services. So #1 and #2 alone fit the pattern. So, answer is (a).
 38. (d) This term was in news context of the Vodafone taxation case. Answer is (d).
 39. (a) Statement 1 is correct: Capital expenditures deals with creation for acquisition of tangible or non-tangible assets new technology is a non-tangible asset. Statement 2 is wrong: Equity financial is not revenue expenditure. It is also a capital expenditure.
 40. (c) Both statements are correct as per the economic survey.
 41. (b) Option (b) is correct: Rice cultivation is one of important source of GHGs, namely methane (CH₄) and nitrous oxide (N₂O).
 42. (d) In SRI paddy cultivation, less quantity of seeds needed than in conventional cultivation. #1 is right. SRI uses mostly organic fertilization so methane emissions are greatly reduced. #2 is right. SRI Paddy Cultivation requires less water. So, less electricity consumption in irrigation pumpset. #3 is right.
 43. (b) Option (b) is correct: Starting in the late 1980s, reduction in precipitation steadily dried the lake Faguibine in Mali. Even though normal rainfall resumed after the year 2000, the lake remained nearly dry as per NASA Satellite images.
 44. (c) Option (c) is correct: Gandikota Canon is situated on the Pennar River in Andhra Pradesh and is known as the Grand Canyon of India. It is formed by the river Pennar.
 45. (b) Pair 1 is not correct: Namcha Barwa is part of Assam Himalayas Pair 2 is correct: Nanda Devi is part of Kumaun Himalayas. Pair 3 is not correct: The Nokrek is part of Garo hills, which forms part of the Meghalaya Plateau.
 46. (a) Option (a) is correct: Levant is the region along the eastern Mediterranean shores, roughly corresponding to modern-day Israel, Jordan, Lebanon, Syria, and certain adjacent areas.
 47. (c) Option (c) is correct: Afghanistan does not share border with Azerbaijan so #1 is wrong. Therefore by elimination the answer is (c).
 48. (b) Statement 3 is wrong: Monazite doesn't occur naturally in the entire Indian coastal sands in India. It is found only in certain parts. So #3 is wrong. Therefore by elimination the answer is (b).
 49. (b) Option (b) is correct: The longest day and the shortest night at Northern Hemisphere occur on 21st June (i.e. second half of the month of June). This position of the earth is called the Summer Solstice
 50. (b) Option (b) is correct: Only 2 pairs are correct
 1. HOKERA WETLAND: JAMMU AND KASHMIR
 2. RENUKA WETLAND: HIMACHAL PRADESH
 3. RUDRASAGAR LAKE:- TRIPURA
 4. SASTHAMKOTTA LAKE: KERALA

51. (b) Option (b) is correct: Only two pairs are correct. • Pair 1 is correct: Dhauli is located in Odisha. • Pair 2 is correct: Erragudi or Yerragudi is located in Andhra Pradesh • Pair 3 is wrong: Jaugada is located in Odisha. • Pair 4 is wrong: Kalsi is located in Uttarakhand. Ref: NCERT Class12
52. (b) Pair 1 is correct: Nanuka was the founder of Chandela Dynasty. Pair 2 is wrong: Jayashakti was a Chandela Ruler. Pair 3 is correct: Nagbhata II belonged to Gurjara Pratihara Dynasty. Pair 4 is wrong: Bhoja belonged to Parmara dynasty.
53. (b) - Sangam Literature has references to material culture so "A" is wrong. - Sangam Literature contains references about material culture, warrior ethics and magical forces so (a), (c) and (d) are wrong. - Therefore by elimination the answer is (b).
54. (a) Option (a) is correct: YogaVasistha (Vasishtha's Treatise on Yoga) was translated into Persian on the command Akbar.
55. (a) As per Class7 NCERT Ramanuja, born in Tamil Nadu in the eleventh century, was deeply influenced by the Alvars. According to him the best means of attaining salvation was through intense devotion to Vishnu. Vishnu in His grace helps the devotee to attain the bliss of union with Him. He propounded the doctrine of Vishishtadvaita or qualified oneness in that the soul even when united with the Supreme God remained distinct.
56. (a) Statement 3 is wrong: The then President of India, Dr. Rajendra Prasad did the Pran-Pratistha at the on 11 May 1951. Therefore by elimination the answer is (a). Ref: IndianExpress 2020.
57. (d) As per class 12 NCERT, B cell and T cell helps fighting the pathogens So Answer is (d).
58. (d) Statement 2 and 3 are correct: The nanoparticle are used in production of some cosmetics and they may be unsafe for human. Therefore answer is (d).
59. (d) Statement 1 is wrong: age of the plants and animals are measured using radio active isotopes. So, (a) and (c) eliminated. Statements 2 and 3 are correct: DNA Barcoding can be used to distinguish among species that look alike and identify undesirable animal or plant materials in processed foods. Therefore Answer is (d).
60. (b) Option (b) is correct: Acid rain results when sulfur dioxide (SO₂) and nitrogen oxides (NOX) are emitted into the atmosphere and they react with water, oxygen and other chemicals to form sulfuric and nitric acids.
61. (d) • Statement 1 is wrong: High clouds are often thin and do not reflect very much. They let Sun's warmth pass through. • Statement 2 is wrong: Low clouds reflect the sunlight back to space. Therefore, low clouds help to cool the Earth.
62. (c) Statement 1 is not correct Bidi Bidi is in Uganda and not in Kenya. Statement 2 is correct: Bidi Bidi hosts more than 270,000 refugees from South Sudan civil war—. Statement 3 is correct: The Dadaab refugee complex in Kenya was established in 1991 when refugees fleeing the civil war in Somalia started to cross the border into Kenya.
63. (c) Option (c) is correct: Among the given countries, only Azerbaijan And Uzbekistan are the members of the organization of Turkic States.
64. (b) Statement 1 is not correct: Rajasthan's Bhadla Solar Park is the largest solar power park in the world. Statement 2 is correct: Kerala's Cochin International Airport Ltd (CIAL) is the first airport in the world that would be running fully on solar power. Statement 3 is not correct: India's largest Floating Solar PV plant is Located at NTPC Simhadri in Andhra Pradesh.
65. (d) Statement 1 is correct: the coastal States exercise sovereignty over their territorial sea not exceeding 12 nautical miles; Statement 2 is correct: Under UNCLOS - the Right of Innocent Passage is allowed. Statement 3 is correct: Exclusive Economic Zone extends upto 200 nautical miles from the baselines.
66. (b) Option (b) is correct: Senkaku Islands are disputed islands between China and Japan.
67. (c) Option (a) is not correct: China established its first, and so far only, overseas military base in the eastern African nation of Djibouti in 2017. And NOT in Chad. Option (b), (c) and (d) are correct.
68. (b) 1. Anatolia—Turkey (pair 1 is correct) 2. Amhara—Ethiopia (pair 2 is correct) 3. Cabo Delgado—Mozambique (pair 3 is not correct) 4. Catalonia—Spain (pair 4 is not correct)
69. (a) Statement 1 is correct: As per the Wild Life (Protection) Act, 1972 Wild animals are considered to be property of government. Statement 3 is not correct: apprehension alone is not sufficient. The Chief Wildlife Warden's approval is required before killing such animal. Therefore by elimination the answer is (a).
70. (a) Option (a) is correct: Leafcutter ants cultivate fungal gardens by providing them with freshly cut leaves.
71. (a) Statement 3 is wrong: domestic currency will increase the risk with external commercial borrowings. It will not decrease the risk therefore by elimination the answer is (a).
72. (d) As per NCERT Class10: Major tea producing states are Assam, hills of Darjeeling and Jalpaiguri districts, West Bengal, Tamil Nadu and Kerala. Apart from these, Himachal Pradesh, Uttarakhand, Meghalaya, Andhra Pradesh and Tripura are also tea-producing states in the country. So All four are correct. Answer is (d).
73. (b) Statement 1 is wrong: All the credit rating agencies in India are regulated by SEBI. Therefore by elimination the answer is (b).
74. (b) Statement 1 is wrong: RBI governor is not the chairman of BBB. Therefore by elimination the answer is (b).
75. (c) Both the statements are correct upon reading of global websites on financial instruments.
76. (d) India is a member of all 3 organisations, and therefore the answer is a (d).
77. (c) Statement number 3 and 4 are correct as per the reading of the earlier economic surveys. There is only one option wherein statement 3 and 4 are together in therefore the answer is (c).
78. (d) As per the RBI act amendment of 2016, inflation control is the responsibility of RBI. Presently they are trying to control the inflation between 2 to 6% CPI (All India). Option (d) is correct.

79. (a) Statement 3 may be wrong since the word Non-fungible itself insinuate that it cannot be used as a medium of exchange because it will not be divisible easily and its individual parts value will not equal to each other. So mutual substitution will difficult therefore number 3 is wrong and by elimination answer should be (a).
80. (c) Ghatprabha- Karnataka (Pair 1 is not correct) Gandhi Sagar- Madhya Pradesh (Pair 2 is correct) Indira Sagar- Madhya Pradesh (Pair 3 is not correct) Maithon- Jharkhand (Pair 4 is not correct)
81. (c) Option (c) is correct: reserved subjects were Justice, the police, land revenue, irrigation, law and order. Transferred subjects under the control of Indian ministers- Local self-government, education, public health, public works, agriculture, forests, and fisheries. So, #2 (local self government) is wrong, Therefore by elimination the answer is (c).
82. (b) Fanam was name of the coins In circulation in South India during the Vijaynagar Empire.
83. (d) Option (d) is correct: Barindra Kumar Ghosh: Anushilan Samiti. #1 is wrong. Jogesh Chandra Chatterjee: associated with Hindustan Socialist Republican Association (HSRA). #2 is wrong. Therefore by elimination the answer is (d): Rash Behari Bose: Ghadar Party.
84. (b) Statement 1 is wrong: A Constituent Assembly Members were to be partly elected by the provincial assemblies and partly nominated by the Princely states. Statement 2 is correct: Any province not willing to join the Union would be eligible to sign an agreement with British regarding its future status.
85. (b) # 1 is wrong: The Nettipakaraa is a legendary Theravada Buddhist scripture. #2 is right: Parishishtaparvan is a Sanskrit mahakavya written by Hemachandra in the 12th century that describes the lives of the first Jain instructors. # 3 is wrong: The Avadanashataka is a Sanskrit collection of one hundred Buddhist stories. #4 is right: Trishashthikshana or Mahapurana Mahapurana is a famous Jain scripture during the reign of Rashtrakuta monarch Amoghavarsha.
86. (c) Option (c) is correct: Pair 1 is wrong: ARYADEVA- BUDDHIST SCHOLAR Pair 2 is correct: Dignaga was an Indian Buddhist scholar. Pair 3 is correct: Sri Ranganathamuni, popularly known as Sriman Nathamuni was a Vaishnava scholar.
87. (b) Statement 1 is wrong: First Mongol invasion took place during the reign of Alauddin Khilji. Statement 2 is correct: The Mongols besieged the Delhi city during the reign of Alauddin Khilji. Statement 3 is wrong: Muhammad-bin-Tughlaq did not loose North-West part of kingdom to Mongols.
88. (d) Option (d) is correct: The Sayyids were recognized by their distinctive head - dress of a pointed cap or kulah and were known as kulah - daran or cap - wearers
89. (b) Statement 1 is wrong: First factory established by Dutch was in Masulipatnam in 1605, whereas Gajapati rule lasted till middle of 16th century. Statement 2 is correct: Albuquerque captured Goa from Sultan of Bijapur in 1510. Statement 3 is correct. The rulers of Vijayanagara appointed chieftains called Nayaks to rule independently in their areas. One such Nayak gave land to British for setting up a factory.
90. (d) According to Chapter 13 of Kautilya's Arthashastra All three statements are correct.
91. (c) This matter falls under the purview of the labour bureau. Option (c) is correct.
92. (a) Statement 4 is wrong: Coal Controller's Organization (CCO) does not ensures that coal mining companies deliver the coal to end users in the prescribed time. B and D eliminated. [MP2] Statement 3 is correct: Under this act, the Coal Controller has the jurisdiction to hear any objections to the Central Government's Notification relating to the acquisition of coal-bearing land and to report to the Central Government. Therefore by elimination the answer is A.
93. (a) Option (a) is correct: This would prevent the shifting of the land of tribal people to non-tribal people.
94. (b) Statement 1 is not correct: India Sanitation Coalition (ISC) is a multi-stakeholder platform that brings together the private sector, government, financial institutions, civil society groups, media etc. Statement 2 is correct: The National Institute of Urban Affairs (NIUA) is a body under MoHUA.
95. (c) Option (c) is correct: Central Ground Water Authority has been constituted under Section 3 (3) of the Environment (Protection) Act, 1986 to regulate and control the development and management of groundwater resources in the country.
96. (a) Credentials Committee appointed by the General Assembly at the beginning of each regular session (month of September). So #1 and #2 are wrong. Therefore by elimination the answer is (a).
97. (a) Option (a) is correct: The International Maritime Organization's Polar Code provides for safe ship in the polar regions.
98. (d) Statement 1 is correct: The UN General Assembly can grant observer status to the non-member States. Statement 2 is correct: Inter-governmental organisations can seek observer status in the UN General Assembly. Statement 3 is correct: Permanent Observers in the UN General Assembly can maintain missions at the UN headquarters.
99. (d) Statements 2 and 3 are wrong: It is a Statutory body under Ministry of Commerce with Head Office at Kolkata. So (a), (b) and (d) are eliminated. Therefore by elimination the answer is (d).
100. (a) Option (a) is correct: Greenwashing is the process of conveying a false impression or providing misleading information about how a company's products are more environmentally sound.