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## MOCK TEST

1. With reference to the Balance of Payments, which of the following constitute/constitutes the Capital Account?

1. External assistance.
2. External Commercial Borrowings (net).
3. Balance of trade.
4. Banking Capital.

Select the correct answer using the codes given below:

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

2. Consider the following sentences about 'Bionic mushroom'.

1. Scientists, have created a bionic device that generates green power by 3D-printing clusters of cyanobacteria on an ordinary white button mushroom.
2. By integrating cyanobacteria that can produce electricity, with nanoscale materials capable of collecting the current.

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

3. Consider the following statements:

1. The constitution empowers the president to promulgate ordinances during the recess of parliament.
2. The power of the president to legislate by ordinance is a parallel power of legislation.
3. President can promulgate an ordinance even when any one of house of the parliament is not in session.

Choose the correct statement/statements using the codes given below:

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

4. With reference to the history of ancient India, which of the following was/were common to both Buddhism and Jainism?

1. Inclination towards peace and celibacy.
2. Indifference to the authority of Vedas
3. Denial of efficacy of rituals.

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

5. The Verma Committee on Fundamental Duties of the citizens (1999) identified the existence of legal provisions for the implementation of some of the fundamental duties.

Which among the following is not one among them.

- (a) The protection of Civil Rights Act (1955)
- (b) The Indian Penal Code (IPC)
- (c) The representation of People Act (1951)
- (d) The Government of India Act (1935)

6. Consider the following statements:

1. Finance Commission is a 5 member body (including the chairman)
2. Finance Commission submits its report to parliament.

Which of the above statements is/are correct.

- (a) 1 only                      (b) 2 only  
(c) Both 1 and 2                (d) None of the above

7. The terms thisra, chatusra, misra, khanda are associated with:

- (a) Different terms of Mughal painting
- (b) Different types of Musical instruments.
- (c) The fundamental units of the Indian rhythmic structure (Talas)
- (d) None of the above

8. Which of the following statements best describes the process of respiration and respiratory organs in frogs and mammals?

1. Frogs and mammals both contain a pair of lungs
2. Exchange of gases takes place through skin in frog but not in human

Select the correct answer using the codes given below:

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

9. With reference to Vijay Nagara Empire which of following statements stands true about Amara-Nayaka

1. The Amara-Nayakas were military commanders who were given territories to govern by the raya.
2. They sent tribute to the king annually to express their loyalty.
3. King could transfer them from one place to other.

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

10. Consider the following statements:

1. Resistivity of a conductor is smaller than that of Insulator
2. Resistivity of an alloy is greater than its constituent metals

Select the correct answer using the code given below:

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

11. According to a group of scientists, aeroplanes may be ejecting significant amounts of black carbon (BC) and this may be depleting the ozone layer:

In this context consider the following statements:

- 1. Black carbon cannot be produced naturally.
- 2. It is known to be more potent than carbon dioxide in whetting global warming.
- 3. Black carbon is emitted directly into the atmosphere in the form of fine particles (PM 2.5)

Select the correct statement/statements using the codes given below:

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

12. Regarding the Lok Sabha and Assembly elections in India consider the following statements:

- 1. The winning candidate need not secure a majority of the votes.
- 2. Constitution prescribes a plurality system as the method of election.

Which of the above is/are correct.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) None of the above

13. With reference to the 'Covid-19', consider the following statements:

- 1. Coronaviruses are zoonotic
- 2. A novel coronavirus (nCoV) is a strain that has been previously identified in humans.

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

14. Consider the following statements.

- 1. Bandagan is a Persian term used for special slaves who are purchased for military service.
- 2. The Khaljis and Tughluqs discontinued using bandagan.

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

15. With reference to Afghan kingdom, consider the following statements.

- (1) Sher Shah laid the foundation of the first Afghan kingdom in India.
- (2) The head of the Afghan Lodi clan Bahlul Khan laid the foundation of the second Afghan kingdom in India.

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

16. Which of the following reports is/are released by World Economic Forum?

- 1. Global Competitiveness Index
- 2. Networked Readiness Index
- 3. Global Innovation Index

Select the correct statement/statements using the code given below:

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

17. Consider the following statements:

- 1. Under Lead Bank Scheme, a particular bank is designated as Lead Bank of the district.
- 2. Service area approach is operated under lead Bank Scheme.

Select the correct statement/statements using the codes given below:

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

18. In context of Fundamental Rights consider the following statements:

- 1. Fundamental Rights are absolute Rights.
- 2. Government can put reasonable restrictions on the exercise of fundamental rights.

Select the correct statements.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) None of the above

19. Which among the following is/are threat to the healthy sustainability of mangroves:

- 1. Channel dredging
- 2. Production forestry
- 3. Land clearance
- 4. Sewage

Select the correct answer from the codes given below:

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

20. With reference to the Exosphere, consider the following statements:

- 1. Density of air is the least in the exosphere.
- 2. Gases are very sparse in this sphere due to the lack of gravitational force.
- 3. It gradually fades into the vacuum of space.

Which of the statements given above is /are correct?

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

21. Amount of insolation at a place depends upon
1. Angle of incidence,
  2. Duration of the day
  3. Transparency of the atmosphere
- Select the correct answer using the code given below:
- (a) 1 and 2 only                      (b) 1 and 3 only  
(c) 3 only                              (d) 1, 2 and 3 only
22. Select the most appropriate statements with reference to 'Multiple Burn Technology',
1. It is related to usage of solid, liquid and cryogenic propellants in the same system.
  2. It is used during launching of satellites into multiple orbits using burning of different fuels.
  3. It refers to Switching 'off' and switching 'on' of engine to control height.
- Select the correct answer using the codes given below:
- (a) 1 only                              (b) 2 only  
(c) 3 only                              (d) Both 2 and 3
23. Which of the following can be considered as the "National Income" of an economy?
- (a) Net National Product at Market Price ( $NNP_{MP}$ )
  - (b) Net National Product at Factor Cost ( $NNP_{FC}$ )
  - (c) Gross Domestic Product
  - (d) Net Domestic Product
24. Consider the following statements.
1. The global carbon cycle has been increasingly disturbed by human activities particularly since the beginning of industrial era.
  2. Large scale deforestation and ever growing consumption of fossil fuels by growing numbers of industries, power plants and automobiles are primarily responsible for increasing emission of carbon dioxide.
- 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. With reference to Natural ecosystem consider the following statements.
- (1) A natural ecosystem is an assemblage of plants and animals which functions as a unit and is capable of maintaining its identity such as forest, grassland, an estuary, human intervention is an example of a natural ecosystem.
  - (2) A natural ecosystem is totally dependent on solar energy.
- 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
26. Which of the following are the implications of Rupee Depreciation on the Indian economy?
- (a) All imports become expensive
  - (b) It widens the current account deficit
  - (c) Both (a) and (b)
  - (d) Neither (a) nor (b)
27. Consider the following statements :
1. A retired judge of High court can be appointed as a judge of Supreme court.
  2. Ad hoc judges to the Supreme court are appointed by the chief justice of India.
  3. An Ad hoc judge of Supreme court enjoys same power and privileges as enjoyed by other judges of Supreme court.
- Choose the correct statement from the above.
- (a) 2 and 3                              (b) 1 and 3  
(c) only 3                              (d) All 1, 2 and 3
28. With reference to Marine ecosystem consider the following statements.
1. Marine ecosystem covers nearly 71% of the earth's surface with an average depth of about 4000 m.
  2. Salinity of open sea is 9.3% and is irregular.
  3. The range of temperature variation is much less in the sea than on the land.
  4. Animals in the deeper layers are adapted to the high pressure.
- Select the correct answer using the codes given:
- (a) 1 and 2 only                      (b) 2 and 4 only  
(c) 3 only                              (d) 1 3 and 4 only
29. With reference to Mangrove swamp ecosystems consider the following statements.
1. Mangrove swamps are coastal wetlands.
  2. They are characterized by halophytic (salt loving) trees.
  3. Mangrove trees dominate this wetland ecosystem due to their ability to survive in both salt and fresh water.
- Which of the statements given above is/are correct?
- (a) 1 and 3 only                      (b) 1 and 2 only  
(c) 2 and 3 only                      (d) 1, 2 and 3
30. Consider the following statements:
1. Lactation period is the transition time between calving and halting of milk removal
  2. Exotic breeds are used for cross-breeding with local breeds to decrease the lactation period
- Select the correct answer using the codes given below:
- (a) 1 only  
(b) 2 only  
(c) Both 1 and 2  
(d) Neither 1 nor 2

31. Which among the following is/are among ways to remove the excess nutrients from a lake:
1. Flushing with nutrient poor water
  2. Deep water abstraction
  3. Removal of fishes and Macrophytes
  4. Sludge removal
- Select the correct answer from the codes given below:
- (a) 1, 2 and 3 (b) 1, 2 and 4  
(c) 2, 3 and 4 (d) 1, 2, 3 and 4
32. Which of the following is/are true with respect to HT cotton:
1. It can transform weeds into super weeds on large-scale.
  2. It will threaten growth and yields of all crops in future.
- Select the correct answer from the codes given below:
- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2
33. Consider the following statements with respect to Safai Mitra Suraksha Challenge:
1. It is launched by Union Minister of Housing and Urban Affairs
  2. It aims to ensure that no life of any sewer or septic tank cleaner is ever lost again owing to the issue of 'hazardous cleaning'.
- Which of the above statements is/are correct?
- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2
34. Lead is a major air pollutant. Which among the following is/are sources of lead:
1. Petrol
  2. Lead batteries
  3. Pencil lead
  4. Hair dye
- Select the correct answer from the codes given below:
- (a) 1, 2 and 3 only (b) 2, 3 and 4 only  
(c) 1, 2 and 4 only (d) 1, 2, 3 and 4
35. Which among the following is not a characteristics of the Unorganised Sector in India?
- (a) Small and Scattered units largely outside the government's control.
  - (b) Low paying and irregular jobs.
  - (c) Provision for overtime, paid leave, holidays and sick leave.
  - (d) Insecure employment.
36. Which of the following is/are true about reverse charge mechanism in the GST regime?
- (a) The liability to pay tax is on the recipient of goods and services rather than on the supplier of the goods and services
  - (b) It is applicable only in case of unregistered person.
  - (c) GST council has specified 12 categories of services for reverse charge mechanism
  - (d) All are correct
37. The amount of Nitrogen fixed by man through industrial process has far exceeded the amount fixed by the Natural cycle. As a result Nitrogen has become a pollutant which can disrupt the balance of nitrogen. Excess of Nitrogen on the earth may lead to
1. Acid rain
  2. Eutrophication
  3. Harmful Algal Blooms
- Select the correct answer from the codes given below:
- (a) 1 and 2 only (b) 2 and 3 only  
(c) 1 and 3 only (d) 1, 2 and 3
38. What is the main purpose behind fortification of foods?
1. To prevent malnutrition
  2. To increase the shelf life
  3. To maintain the nutritive value of food
- Select the correct answer using the codes given below:
- (a) 1 only (b) 2 only  
(c) 3 only (d) 1, 2 and 3
39. For which of the following the term "Paper Gold" is used:
- (a) United States Dollar
  - (b) Gold Reserved with International Monetary Fund
  - (c) Gold reserved with the Central Bank
  - (d) Special Drawing Rights (SDR) of IMF
40. The constitution confers the some rights privileges on citizens of India. Which of the following rights it denies to aliens?
1. Right against discrimination on grounds of sex or place of birth.
  2. Cultural and educational rights.
  3. Right to contest for membership of Parliament.
- 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
41. Consider the following statements with respect to Guillain Barre Syndrome:
1. It is a very rare autoimmune disorder in which the patient's immune system attacks nerves.
  2. Double vision, rapid heart rate, low or high blood pressure are some of its symptoms
- Which of the above statements is/are correct?
- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2
42. Read the following statements with reference to Article 371 of the Indian Constitution,
1. It is related to Special provision with respect to the States of Maharashtra and Gujarat
  2. It deals with the Special provision with respect to the State of Assam

Select the correct answer using the codes given below

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

43. With reference to Biome consider the following statements.

1. A very large ecosystem on land having distinct types of vegetation and animal life is called a biome.
2. The biomes are identified on the basis of plants.

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

44. Consider the following statements:

1. A minister can only be a member of the Lok Sabha.
2. The ministers are collectively responsible to the Parliament.

Select the correct statement/statements using the codes given below.

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

45. The largest and most spectacular rock shelter is located in the Vindhya hills in Madhya Pradesh. With reference to the themes of these paintings; consider the following.

1. Mundane events of daily life
2. Hunting and dancing
3. Animal fight
4. Royal and Sacred images

Select the correct answer using codes given below.

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

46. Which among the following are examples of traditional theatre forms:

- (1) Yakshagana (2) Thumri  
(3) Teyyam (4) Phitlam

Select the correct answer from the codes given below.

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

47. With reference to Mahalwari system, consider the following statements:

1. Ownership rights were vested with Zamindars.
2. It was an amalgamation of both the Zamindari system and Ryotwari system.

Which of the statements given above is/are correct?

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

48. Consider the following statements with reference to lakes in India.

1. In India, Natural lakes mostly lie in the peninsula region.

2. On the basis of their nutrient content, vast majority of lakes are Eutrophic or mesotrophic.

Select the correct statement/statements using codes given below:

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

49. Consider the following statements with reference to the National Human Rights Commission (NHRC):

1. The chairman should be a retired chief justice of India.
2. The chairman and members are not eligible for further employment under the central/state government post retirement.

Select the correct statement/statements using the codes given below:

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

50. Which among the following is/are not Jain literature

1. Kalp Sutra
2. Angutar Nikaya
3. Acharang Sutra
4. Milanda Panho

Select the correct answer from the codes given below.

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

51. Consider the following statements :

1. Supreme court has power to review its own judgement.
2. All authorities, civil and judicial shall act in aid of the Supreme court.

Choose the correct statement/statements –

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) None of the Above

52. With reference to green house effect consider the following statements.

1. The green-house effect is a man made phenomenon.
2. Life on the earth has been possible because of this natural green house effect which is due to water vapour and small particles of water present in the atmosphere.

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

53. Consider the following statements with reference to Indian Economy:

1. The share of agriculture sector in GDP has consistently declined since 1950.
2. Services Sector has maximum contribution in GDP in present times.



Select the correct statement/ statements using the codes given below:

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

54. Consider the following statements

1. The constitution has given the states the option of establishing either a unicameral or bicameral legislature.
2. At present only 5 states have bicameral legislature.

Select the correct statement/statements using the codes given below.

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

55. With reference to the 'horse latitudes', consider the following statements:

1. Sub-tropical high pressure belts are also called horse latitudes.
2. The horse latitudes are located at about 30 degrees north and south of the equator.

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

56. With reference to the Prehistoric Rock painting, consider the following statements.

1. Animals were painted in a naturalistic style.
2. Humans were depicted only in a stylistic manner.
3. There were as many as 20 layers of paintings, one on top of another.

Select the correct statements from the codes given below.

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

57. Consider the following statements:

1. The places near the equator are warmer than the places which are far away from it.
2. The rays of the sun fall vertical on the equator and slanting in the temperate and polar regions.

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

58. Arrange the following rivers of northeast India in the order from east to west.

1. Raidak
2. Jaldhaka
3. Kamneng
4. Manas

Select the correct answer from the codes given below:

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

59. Consider the following statements:

1. Mankidia are classified as scheduled caste in Odisha
2. Mankidia people are trained in hunting the birds

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

60. With reference to the Jain Philosophy, consider the following statements:

1. The doctrines of Jainism were similar from the period of Rishabhnaatha to Mahavira.
2. Jainism recognized the existence of god as a supreme.

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. The earth is divided into five thermal zones on the basis of distribution of insolation and temperature. With reference to the 'Thermal Zones' consider the following statements:

1. Temperate Zone is the largest of the thermal zones.
2. The area or region between the Arctic Circle and the North Pole or between the Antarctic Circle and the South Pole is called Frigid Zones.

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

62. With reference to the veto powers of the President of India, consider the following statements:

1. He possess suspensive veto in the case of money bills.
2. President has no veto power in respect of a constitutional amendment bill.

Select the correct statement/statements using the codes given below:

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

63. Read the following statements with reference to division of cells.

1. Mitosis is equational division.
2. Mitosis is restricted to haploid cells.
3. Some of the haploid cells also divide by meiosis.

Select the correct answer using the codes given below.

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

64. If one has to travel through the horn of Africa to reach Turkey, which of the following countries will come in the way:

1. Saudi Arabia
2. Yemen
3. Iran
4. Sudan

Select the correct answer from the codes given below.

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

65. Which of the following statements stands true with reference to the constitution of India?

1. The policy of reservation shall not be seen as a violation of the right to equality.
2. Right to shelter and livelihood is a Fundamental Right.

Select the correct answer using the codes given below:

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) None of the above

66. Considers the following statements:

1. The presiding officer of Lok Sabha is known as Speaker.
2. His/her decisions in all parliamentary matters are final.
3. He/she is the custodian of rights and privileges of the members.

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

67. Least distance of distinct vision and near point of eye,

1. is same for young adults with normal vision.
2. is same for senior citizens with normal vision.
3. is same for young adults with vision defect.

Select the correct answer using the codes given below:

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

68. Considers the following statements:

1. A High Court has the right of superintendence and control over all the subordinate courts in all the matter of judicial nature only.
2. It can also make rules and regulations relating to the appointment, demotion, promotion and leave of absence for the officers of the subordinate courts.

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

69. Which of the following is the correct order of the given plateaus from east to west.

- (1) Malwa plateau
- (2) Bhandar plateau
- (3) Chota Nagpur plateau
- (4) Baghelkhand plateau

Codes:

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

70. With reference to 'Mughal Traditions of Succession', which one of the following statements is correct?

1. The Mughals did not believe in coparcenary inheritance,
2. They followed the rule of primogeniture,

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

71. With reference to 'navy of the Maratha military forces', which one of the following statements is correct?

1. Shivaji built up his naval bases in Kalyan and Bhivandi.
2. His conquest of the south Konkan coast further expanded his naval might.

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

72. Holographic technology can be used in which of the following fields

1. Engineering and Architecture
2. Health and medicine
3. Tradeshow

Select the correct answer using the codes given below:

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

73. The invasion of India by Nadir Shah in 1739 would be an emblematic example. With reference to 'the reasons that led to the Nadir Shah's invasion, which one of the following statements is/are correct?

1. Muhammad Shah, the Mughal emperor of Delhi, had humiliated the Persian envoy at Delhi's royal court.
2. Muhammad Shah completely stopped exchange of ambassadors with the royal court of Persia.
3. Muhammad Shah had refused to return the refugees under the Mughal Empire.
4. To plunder the huge wealth of India.

Select the correct answer using the code given below:

- (a) 1, 2 and 4 only (b) 1, 2 and 3 only  
(c) 2, 3 and 4 only (d) all of the above

74. Before formally Launching the Civil Disobedience Movement (CDM), Gandhi put forward eleven demands before the British Government.

Which the following is/are not among those eleven demands?

1. Introduce total prohibition.
2. Dominion status for India.
3. Universal adult-franchise.
4. Reserve Coastal Shipping for Indians.

Select the correct answer using the codes given below:

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

75. Which among the following is/are a source of Capital Receipts:

1. External borrowings
2. Net Market Loans

3. Treasury Bills issued to RBI

4. Ways and Means Advances

Select the correct answer from the codes given below:

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

76. Which of the following statements are true regarding Proportional Representation System of election:

- 1. Voters exercise their preference for a party and not a candidate.
- 2. More than one representative may be elected from one constituency

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) None of the above

77. Consider the following statements in context of conservation of elephants in India:

- 1. Under the wildlife (protection) Act, 1972, Elephant is a schedule III animals.
- 2. Asian elephants are listed as "Threatened" in the IUCN Red List of threatened species.

Select the correct statement/statements using the codes given below:

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

78. Sources of the seventeenth century refer to two kinds of peasants- 'Khud-Kashta and pahi-Kashta'. With reference to 'khud-kashta and pahi-kashta', which one of the following statements is/are correct?

- 1. Pahi-Kashtas lived in villages where they had their land.
- 2. Khud-Kashtas were those peasants who cultivate land on a contractual basis.

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

79. Consider the following statements with reference to International Monetary Fund (IMF), Special Drawing Rights (SDR):

- 1. SDR's main function is to cater to the problem of balance of payment.
- 2. In India SDR is held with the central government.

Select the correct statement/statements using the codes given below:

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

80. Consider the following statements:

- 1. Tundra biome is devoid of trees except stunted shrubs.
- 2. The dominating vegetation of Taiga biome is coniferous evergreen mostly spruce.

Select the correct answer from the codes given below:

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

81. There is an inexhaustible supply of nitrogen in the atmosphere but the elemental form cannot be used directly by most of the living organism. Nitrogen needs to be 'fixed' that is converted to ammonia, nitrites or nitrates, before it can be taken up by plants.

By which of the following way nitrogen can be fixed on earth

- 1. By micro-organism.
- 2. By industrial process.
- 3. By atmospheric phenomenon such as lightning.

Select the correct answer from the codes given below:

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

82. The Global Multidimensional Poverty Index (MPI) was developed by

- (a) Oxford Poverty and Human Development Initiative (OPHI)
- (b) United Nation Development Programme (UNDP)
- (c) Both (OPHI) and UNDP
- (d) WORLD Bank

83. The Genetic Engineering Appraisal Committee (GEAC) recently made recommendation on "GM crops and its impact on environment".

With reference to the Impact of GM crops on Environment consider the following statements.

- 1. GM crops do not contaminate the soil and water.
- 2. GM products being sold in the country have no labeling.

Select the correct statement/statements using the codes given below:

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

84. Consider the following statements:

- 1. Betwa is the only big river that joins the Ganga directly from the Southern plateau.
- 2. Ambala is located on the water divide between the Indus and the Ganga river system.

Select the correct answer from the codes given below:

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

85. Which of the following ingredients or components is/are revealed by The Preamble of the Constitution.

- 1. Nature of Indian State.
  - 2. Source of authority of the constitution.
  - 3. Objectives of the constitution.
  - 4. Date of adoption of the constitution.
- (a) 1, 2 and 3 only
  - (b) 2, 3 and 4 only
  - (c) 1, 3 and 4 only
  - (d) All the above



86. Which among the following is/are counted in Revenue Receipts:

1. Customs Duties
2. Dividends and Profits
3. Receipts from Social Services
4. External Borrowings
5. Securities against small savings.

Select the correct answer using codes given below.

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

87. Consider the following statements:

1. The post of the Comptroller and Auditor General of India has been envisaged in the Article 76 of Indian Constitution.
2. Comptroller and Auditor General of India, is called the guardian of the public fund.

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

88. Which of the following is/are the key features of the Mahatma Gandhi National Rural Employment Guarantee Act?

1. The State Employment Agency after due verification will issue a Job Card
2. A minimum of 10 job seekers shall apply to sanction a new work under MGNREGA
3. At least one-half beneficiaries shall be women who have registered and requested work under the scheme

Select the correct answer using the code below:

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

89. Consider the following statements:

1. Indian Council of Medical Research (ICMR) is neither a statutory body nor a regulatory body.
2. According to the Clinical Trial Rules, only the ICMR can initiate action when investigators or sponsor of vaccines fail to comply with the Drugs and Cosmetics Act or the Rules.

Which of the given above statements is/are correct?

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

90. Consider the following statements about Atal Bhujal Yojana:

1. It is conceived to arrest the rampant overuse of groundwater in India
2. It is supported by the World Bank

3. It is a sub-scheme under National Groundwater Management Improvement Scheme (NGMIS)

Select the correct statements

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

91. Regarding the functions of RBI, which of the following statements is/are correct?

1. It Formulates implements and monitors the monetary policy.
2. It maintains banking accounts of all scheduled banks.
3. It is the Manager of Foreign Exchange and it manages it according to the Foreign Exchange Management Act, 1934.

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

92. Which of the following is/are true?

1. The composition of the state finance commission may be provided by the state government.
  2. Article 280 deals with State finance Commission
- 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

93. The Global State of Democracy Report, 2021 was recently released by which of the following institutes/organization.

- (a) National Democratic Institute
- (b) Democracy International
- (c) International Institute for Democracy and Electoral Assistance
- (d) National Endowment for Democracy

94. Consider the following statements:

1. The Fiscal Responsibility and Budget Management (FRBM) Review Committee Report has recommended a debt to GDP ratio of 60% for the general (combined) government by 2023, comprising 40% for the Central Government and 20% for the State Government.
2. The Central Government has domestic liabilities of 21% of GDP as compared to that of 49% of GDP of the State Government.
3. As per the Constitution of India, it is mandatory for a State to take the Central Government's consent for raising any loan if the former owes any outstanding liabilities to the latter.

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

95. Consider the following statements:

1. Exercise Varuna is an Indo-French naval exercise.
2. All the QUAD members participated in Varuna exercise.
3. Varuna exercise was conducted in the Indian Ocean Region.

Which of the statements given above is/are not correct?

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

96. With reference to the Economic and Social Survey of Asia and the Pacific report, consider the following statements:

1. It is the oldest World Bank report on the region's progress.
2. The study of the report focuses on a significant aspect or challenge relevant to the economies of the Asia Pacific region.

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

97. Consider the following statements regarding Bitcoin and Crypto Currencies:

1. Cryptocurrency is a specific type of virtual currency, which is decentralised and protected by cryptographic encryption techniques.
2. Originally, Bitcoin was intended to strengthen the fiat money.
3. All the transactions ever made are contained in a publicly available, open ledger, although in an anonymous and an encrypted form called a blockchain.

Which of the statements given above is/are correct?

- (a) 1 only  
(b) 3 only  
(c) 1 and 3 only  
(d) None of the above

98. Consider the following statements:

1. Lithium is a highly reactive metal
2. It is prominently used in mobile phone batteries
3. It is a silvery-white alkali metal

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

99. Consider the following statements in respect of the Khel Ratna Award?

1. It is the highest sporting honour of India.
2. It was established in 1992
3. Leander Paes was the first winner of this award
4. It was officially known as Indira Gandhi Khel Ratna Award

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

100. Consider the following statements about Wimbledon's Championship 2021?

1. Samir Banerjee of India is the winner of Boys' Singles
2. Nikola Mektić and Mate Pavić wins Men's Doubles
3. Veronika Kudermetova and Elena Vesnina are the winners of Women's Doubles

Which of the statements given above is/are correct?

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

## RESPONSE SHEET

- |                       |                       |                       |                        |
|-----------------------|-----------------------|-----------------------|------------------------|
| 1.    (a) (b) (c) (d) | 2.    (a) (b) (c) (d) | 3.    (a) (b) (c) (d) | 4.    (a) (b) (c) (d)  |
| 5.    (a) (b) (c) (d) | 6.    (a) (b) (c) (d) | 7.    (a) (b) (c) (d) | 8.    (a) (b) (c) (d)  |
| 9.    (a) (b) (c) (d) | 10.   (a) (b) (c) (d) | 11.   (a) (b) (c) (d) | 12.   (a) (b) (c) (d)  |
| 13.   (a) (b) (c) (d) | 14.   (a) (b) (c) (d) | 15.   (a) (b) (c) (d) | 16.   (a) (b) (c) (d)  |
| 17.   (a) (b) (c) (d) | 18.   (a) (b) (c) (d) | 19.   (a) (b) (c) (d) | 20.   (a) (b) (c) (d)  |
| 21.   (a) (b) (c) (d) | 22.   (a) (b) (c) (d) | 23.   (a) (b) (c) (d) | 24.   (a) (b) (c) (d)  |
| 25.   (a) (b) (c) (d) | 26.   (a) (b) (c) (d) | 27.   (a) (b) (c) (d) | 28.   (a) (b) (c) (d)  |
| 29.   (a) (b) (c) (d) | 30.   (a) (b) (c) (d) | 31.   (a) (b) (c) (d) | 32.   (a) (b) (c) (d)  |
| 33.   (a) (b) (c) (d) | 34.   (a) (b) (c) (d) | 35.   (a) (b) (c) (d) | 36.   (a) (b) (c) (d)  |
| 37.   (a) (b) (c) (d) | 38.   (a) (b) (c) (d) | 39.   (a) (b) (c) (d) | 40.   (a) (b) (c) (d)  |
| 41.   (a) (b) (c) (d) | 42.   (a) (b) (c) (d) | 43.   (a) (b) (c) (d) | 44.   (a) (b) (c) (d)  |
| 45.   (a) (b) (c) (d) | 46.   (a) (b) (c) (d) | 47.   (a) (b) (c) (d) | 48.   (a) (b) (c) (d)  |
| 49.   (a) (b) (c) (d) | 50.   (a) (b) (c) (d) | 51.   (a) (b) (c) (d) | 52.   (a) (b) (c) (d)  |
| 53.   (a) (b) (c) (d) | 54.   (a) (b) (c) (d) | 55.   (a) (b) (c) (d) | 56.   (a) (b) (c) (d)  |
| 57.   (a) (b) (c) (d) | 58.   (a) (b) (c) (d) | 59.   (a) (b) (c) (d) | 60.   (a) (b) (c) (d)  |
| 61.   (a) (b) (c) (d) | 62.   (a) (b) (c) (d) | 63.   (a) (b) (c) (d) | 64.   (a) (b) (c) (d)  |
| 65.   (a) (b) (c) (d) | 66.   (a) (b) (c) (d) | 67.   (a) (b) (c) (d) | 68.   (a) (b) (c) (d)  |
| 69.   (a) (b) (c) (d) | 70.   (a) (b) (c) (d) | 71.   (a) (b) (c) (d) | 72.   (a) (b) (c) (d)  |
| 73.   (a) (b) (c) (d) | 74.   (a) (b) (c) (d) | 75.   (a) (b) (c) (d) | 76.   (a) (b) (c) (d)  |
| 77.   (a) (b) (c) (d) | 78.   (a) (b) (c) (d) | 79.   (a) (b) (c) (d) | 80.   (a) (b) (c) (d)  |
| 81.   (a) (b) (c) (d) | 82.   (a) (b) (c) (d) | 83.   (a) (b) (c) (d) | 84.   (a) (b) (c) (d)  |
| 85.   (a) (b) (c) (d) | 85.   (a) (b) (c) (d) | 87.   (a) (b) (c) (d) | 88.   (a) (b) (c) (d)  |
| 89.   (a) (b) (c) (d) | 90.   (a) (b) (c) (d) | 91.   (a) (b) (c) (d) | 92.   (a) (b) (c) (d)  |
| 93.   (a) (b) (c) (d) | 94.   (a) (b) (c) (d) | 95.   (a) (b) (c) (d) | 96.   (a) (b) (c) (d)  |
| 97.   (a) (b) (c) (d) | 98.   (a) (b) (c) (d) | 99.   (a) (b) (c) (d) | 100.   (a) (b) (c) (d) |

## ANSWER KEYS

1	(c)	11	(d)	21	(d)	31	(b)	41	(c)	51	(c)	61	(b)	71	(c)	81	(d)	91	(a)
2	(c)	12	(c)	22	(c)	32	(c)	42	(a)	52	(b)	62	(b)	72	(d)	82	(c)	92	(a)
3	(b)	13	(a)	23	(b)	33	(c)	43	(c)	53	(c)	63	(a)	73	(d)	83	(c)	93	(c)
4	(d)	14	(c)	24	(c)	34	(c)	44	(b)	54	(a)	64	(c)	74	(c)	84	(b)	94	(c)
5	(d)	15	(d)	25	(c)	35	(c)	45	(c)	55	(c)	65	(c)	75	(b)	85	(d)	95	(b)
6	(a)	16	(b)	26	(c)	36	(d)	46	(c)	56	(d)	66	(d)	76	(c)	86	(a)	96	(b)
7	(c)	17	(b)	27	(d)	37	(d)	47	(b)	57	(c)	67	(d)	77	(d)	87	(b)	97	(c)
8	(c)	18	(b)	28	(d)	38	(a)	48	(b)	58	(b)	68	(b)	78	(d)	88	(c)	98	(d)
9	(d)	19	(d)	29	(d)	39	(d)	49	(c)	59	(d)	69	(b)	79	(a)	89	(a)	99	(a)
10	(c)	20	(d)	30	(a)	40	(d)	50	(b)	60	(d)	70	(d)	80	(c)	90	(a)	100	(c)

## HINTS &amp; EXPLANATIONS

- (c) Capital account transactions are two way and multiple transactions. It means paid money can be recovered through periodical income and/or by disposal of the asset created.  
The Capital Account Constitutes of
  - External assistance (Net).
  - Net External Commercial Borrowings.
  - Short term debt.
  - Banking Capital.
  - Foreign Investment.
  - Foreign Direct Investment (FDI)
- (c) Scientists, including those of Indian origin, have created a bionic device that generates green power by 3D-printing clusters of cyanobacteria on an ordinary white button mushroom. An ordinary white button mushroom is made bionic by supercharging it with clusters of cyanobacteria that create electricity and swirls of graphene nanoribbons that can collect the current. This bionic mushroom can produce electricity. This is by integrating cyanobacteria that can produce electricity, with nanoscale materials capable of collecting the current. The unique properties of both will get augmented and create an entirely new functional bionic system.
- (b) Article-123 of the constitution empowers the president to promulgate ordinance during the recess of Parliament. These ordinances have the same force and effect & as an act of Parliament, but are in nature temporary laws.
  - The President can promulgate an ordinance only when both the Houses of parliament are not in session or when either of the two houses of parliament is not in session.
  - An ordinance made when both the houses are in session is void. Thus the power of the president to legislate by ordinance is not a parallel power of legislation.
- (d) Both are inclined towards peace, denied the efficacy of rituals in difference to the authority of Vedas and follow celibacy.
- (d) The Government of India Act is not relevant in this context.  
Besides the legal provisions given in the question, there are certain other provisions like
  - The Wildlife (protection) Act of 1972
  - The Forest (conservation) Act of 1980
  - The Unlawful Activities (prevention) Act of 1967
- (a) Finance Commission consists of a chairman and four other members to be appointed by the president.
  - The commission submits its report to the president. He lays it before both the houses of parliament.
- (c) Talas are rhythmic cycles. They have a universal unity, besides being quite complicated. The fundamental units of the Indian rhythmic structure are thisra (three), chatusra (four), khanda (five), misra (seven) and sankeertana (nine)
- (c) Frog and mammals both contains a pair of lungs. The exchange of gases in both of them takes place in lungs. In addition frogs also respire through their moist skin.
- (d) The Nayaka System was a major political innovation of Vijaynagara Empire. Many features of this system were derived from the Ikta system of Delhi-Sultanate. The Amara-Nayaka were military commanders who were given territories to govern by

the raya. They sent tribute to the King annually and personally. Kings occasionally asserted their control over Amara Nayaka by transferring them from one place to another.

10. (c) Resistivity of conductor is smaller than that of Insulator. Resistivity of an alloy is greater than its constituent metals.
11. (d) Black carbon is produced both naturally and by human activities as a result of the incomplete combustion of fossil fuels, bio fuels and biomass.
  - It is known to be one-fourth as potent as carbon dioxide in whetting global warming.
  - Black carbon particles strongly absorb sunlight and give soot its black colour.
12. (c) In India the method of election followed for the General elections and assembly elections is First Past the Post (FPTP) system. In this system whoever has more votes than all other candidates is declared elected. The winning candidate need not secure a majority of the votes.
  - This method of election is also called the plurality system.
  - This is the method of election prescribed by the constitution.

**Source:** N.C.E.R.T. (Std. XI<sup>th</sup>) (Chapter 3)

13. (a) Coronaviruses are zoonotic, meaning they are transmitted between animals and people. Detailed investigations found that SARS-CoV was transmitted from civet cats to humans and MERS-CoV from dromedary camels to humans. Several known coronaviruses are circulating in animals that have not yet infected humans. A novel coronavirus (nCoV) is a new strain that has not been previously identified in humans.
14. (c) Option (b) is wrong because the Khaljis and Tughluqs continued to use bandagan and also raised people of humble birth, who were often their clients, to high political positions. They were appointed as generals and governors. However, this also introduced an element of political instability. Unity in the vast kingdom of the sultanate depended on reliable administrators and governors. But rather than chieftains, the sultans preferred slaves called bandagan (slaves purchased for military service and carefully trained to handle important political offices).
15. (d) Both options (1) and (2) are wrong. The head of the Afghan Lodi clan Bahlul Khan seized the throne of Delhi in 1451 and laid the foundation of the first Afghan kingdom in India. Afghan kingdom under the Lodis was replaced by the Mughals under Babur in 1526. After a gap of 14 years Sher Shah succeeded in establishing the Afghan rule again in India in

1540. Sher Shah and his successors ruled for 15 years. This period is known as the period of second Afghan Empire.

16. (b) The Global Innovation Index is an annual ranking of countries by their capacity for and success in innovation. It is published by INSEAD; World Intellectual property organisation.
17. (b) Under Lead Bank Scheme a particular bank is designated as Lead Bank of the district. It co-ordinates the activities of all banks in that district to avoid duplication of banking works, to ensure same person does not get loans from different Banks.
18. (b) Judiciary has the powers and responsibility to protect the fundamental rights from violations by actions of the government. Executive as well as legislative actions can be declared illegal by the judiciary if these violate the fundamental rights or restrict them in an unreasonable manners. However fundamental rights are not absolute or unlimited rights. Govt. can put reasonable restrictions on the exercise of our fundamental rights.
19. (d) Mangroves are medium height shrubs, found in Saline Coastal regions. Mangroves are mainly found in tropical and sub-tropical region. Mangroves are Salt-tolerant halophytes. Mangroves flourish well in anaerobic conditions. The following posses threat to healthy sustainability of mangroves:
  - Production forestry
  - Land clearance
  - Introduced species
  - Agriculture
  - Marine farming
  - Infilling and reclamation
  - Channel dredging
20. (d) The Exosphere is the last layer of the atmosphere located above ionosphere and extends to beyond 400 km above the earth. Gases are very sparse in this sphere due to the lack of gravitational force. Therefore, the density of air is very less here. It is the uppermost region of Earth's atmosphere as it gradually fades into the vacuum of space. Air in the exosphere is extremely thin - in many ways it is almost the same as the airless void of outer space.
21. (d) The amount of insolation received on the earth's surface is not uniform everywhere. It varies from place to place and from time to time. The tropical zone receives the maximum annual insolation. It gradually decreases towards the poles. Insolation is more in summers and less in winters. The following factors influence the amount of insolation received.



- (i) The angle of incidence. (ii) Duration of the day. (daily sunlight period) (iii) Transparency of the atmosphere.
22. (c) Under Multiple burn technology during satellite launch, the rocket's engine is switched off and then switched on to control its height. It is used to place satellites in two different orbits.
23. (b) There are four concepts in the output of an economy - GNP, GDP, NNP and NDP. The NNP is the best method to measure growth of an economy as it covers all the nationals of a country and is also a net increase after depreciation. It is also called as "National Income" of an economy.
24. (c) Carbon dioxide has been continuously increasing in the atmosphere due to human activities such as industrialization, urbanization and increasing use and number of automobiles. This is leading to increase concentration of  $\text{CO}_2$  in the atmosphere, which is a major cause of global warming.
25. (c) Natural ecosystem is a community of living and non-living organisms, where each component interacts together as a unit through biological, physical and chemical processes. The distinctiveness of natural ecosystems is that they are purely natural and their formations are not in any way influenced by human activity.
26. (c) India's imports comprise of essentials such as crude petroleum, machineries and fertilizers which become expensive raising their prices facilitating 'import' of inflation.  
All imports become expensive including raw materials, goods and machineries which further push up domestic costs. Rupee Depreciation widens the current account deficit, which may require dipping into scarce foreign exchange reserve.
27. (d) – At any given time, the chief justice of India can request a retired judge of the Supreme court or High court to act as an Ad hoc judge of the Supreme court.  
– When there is a lack of Quorum in the Supreme court, the chief justice of India can appoint a judge of High court as Ad hoc judge to the Supreme court.  
– Quorum: It is the minimum strength of the Supreme court which is required for Supreme court to function efficiently.  
– The Ad hoc judges enjoy all the jurisdiction, powers and privileges of a judge of the Supreme court.
28. (d) Salinity of open sea is 3.6% and is quite constant. The range of temperature variation is much less in the sea than on the land. Hydrostatic pressure due to water column increases with depth in oceans. It is 1 atm near the surface and 1000 atm at greatest depth. Animals in the deeper layers are adapted to the high pressure. Some marine organisms such as sperm whales and certain seals can dive to the great depths and swim back to the surface without difficulty. Tides, due to gravitational pull of the moon are a common feature of marine ecosystems.
29. (d) Mangrove swamps are coastal wetlands found in tropical and subtropical regions. They are characterized by halophytic (salt loving) trees, shrubs and other plants growing in brackish to saline tidal waters. These wetlands are often found in estuaries, where fresh water meets salt water and are infamous for their impenetrable maze of woody vegetation. Mangrove trees dominate this wetland ecosystem due to their ability to survive in both salt and fresh water.
30. (a) Exotic breeds are used for cross-breeding with local breeds to increase the lactation period. Lactation period is the duration of milk production after calving.
31. (b) Excess of the nutrients from a lake can be removed by following methods:  
– Flushing with nutrient-poor waters.  
– Deep water abstraction.  
– On-site algae swimming and separator thickening.  
– Harvest of fishes and macrophytes.  
– Sludge removal.  
– Artificial Mixing/Destratification
32. (c) Herbicide-Tolerant (HT) cotton also known as BG-III cotton is innovation in Bt cotton as it takes care of weeds problem at much lower cost as compared to physical labour required for weeding.
33. (c) The Union Minister of Housing and Urban Affairs has launched the Safai Mitra Suraksha Challenge. It aims to ensure that no life of any sewer or septic tank cleaner is ever lost again owing to the issue of 'hazardous cleaning. India still continues to witness over hundred deaths per year due to manual scavenging. It is in line with PM's vision who has always placed the safety and dignity of sanitation workers at the core of the Swachh Bharat Mission-Urban (SBM-U). The challenge has been launched in 243 cities to mechanize all sewer and septic tank cleaning operations by 30th April 2021. The challenge will focus extensively on creating citizen awareness on this critical issue along with infrastructure creation for mechanized cleaning and capacity building of workforce.
34. (c) Lead is present in petrol, diesel, lead batteries, paints, hair dye products etc. Lead affects children in particular.

- It can cause nervous system damage and digestive problems and in some cases causes cancer.
- The main component of Pencil lead is graphite.
35. (c) The Unorganised Sector is characterised by small and scattered units which are largely outside the control of the government. There are rules and regulations but these are not followed. Jobs here are low-paid and often not regular. There is no provision for overtime, paid leave, holidays, leave due to sickness etc. Employment is not secure. People can be asked to leave without any reason. Unorganised sector includes a large number of people who are employed on their own doing small jobs such as selling on the streets or doing repair work. Similarly farmers work on their own and hire labourers as and when they require.
- Source:** N.C.E.R.T 10<sup>th</sup> Economics.
36. (d) All the options (a), (b) and (c) are correct. Besides this, if the supply of goods or services or both are exempt under GST, then the recipient is not liable to pay tax under the reverse charge mechanism. The C GST law mandates registration for those who are required to pay tax under reverse charge, even if their turnover is less than the threshold limit of ₹ 20 Lakh.
37. (d) All the above statements are correct. As a result of Industrial Manufacturing of nitrogen, it has become a pollutant which can disrupt the balance of nitrogen. It may lead to Acid rain, Eutrophication and Harmful Algal Blooms. Nitrogen is mainly manufactured by industrial method in the fertilizer sector.
38. (a) Fortification is the process of adding vitamins/minerals to foods for prevention of malnutrition.
39. (d) As a loan arrangement, the Member Countries are entitled to get loan from IMF's Special Drawing Account. This loan is amount with IMF. It is also known as paper Gold. In this arrangement IMF does not lend directly. It is the member countries who are in strong position lend their SDR holdings to member countries who are in Balance of Payment Problem.
40. (d) The constitution confers the following rights and privileges on the citizens of India and denies the same to aliens.
1. Right against discrimination on grounds of religion, race, caste, sex or place of birth (Article 15).
  2. Right to equality of opportunity in the matter of public employment (Article 16).
  3. Right to freedom of speech and expression, assembly, association, movement, residence and profession (Article 19).
  4. Cultural and educational rights (Articles 29 and 30).
5. Right to vote in elections to the Lok Sabha and state legislative assembly.
6. Right to contest for the membership of the Parliament and the state legislature.
7. Eligibility to hold certain public offices, that is President of India, Vice-President of India, judges of the Supreme Court and the high courts, governor of states, attorney general of India and advocate general of states.
41. (c) **Guillain Barre Syndrome:**  
It is a very rare autoimmune disorder in which the patient's immune system attacks nerves. The exact cause of Guillain-Barre syndrome is unknown, but as per the World Health Organisation (WHO), GBS is often preceded by an infection. This could be a bacterial or viral infection. It may also be triggered by vaccine administration or surgery. Some patients infected with Covid-19 have been found suffering from Guillain Barre Syndrome (GBS). In the past, patients of Middle East respiratory syndrome (MERS), Zika virus, Human Immunodeficiency Virus (HIV), Herpes virus and Campylobacter jejuni have shown symptoms of GBS.
- Symptoms:**  
Weakness or tingling sensations, which usually start in the legs, and can spread to the arms and face. Difficulty with facial movements, including speaking, chewing or swallowing. Double vision, rapid heart rate, low or high blood pressure.
42. (a) Articles 371 to 371-J of the constitution of India contain special provisions for different states. Art. 371 deals with Special provision with respect to the States of Maharashtra and Gujarat. Article 371A-J deals with Special provision with respect to the different States. Art. 371-A and 371-B deals with Special provision with respect to the State of Nagaland and Assam respectively. These special provisions act as special status aims at preserving cultural and other identities of the concerned state.
43. (c) A biome is a large area characterized by its vegetation, soil, climate, and wildlife. There are five major types of biomes: aquatic, grassland, forest, desert, and tundra, though some of these biomes can be further divided into more specific categories, such as freshwater, marine, savanna, tropical rainforest, temperate rainforest, and taiga. as freshwater, marine, savanna, tropical rainforest, temperate rainforest, and taiga. as freshwater, marine, savanna, tropical rainforest, temperate rainforest, and taiga.
44. (b) A minister can be a member of either of the two houses i.e. Lok-Sabha and Rajya Sabha. A person cannot be a minister without being a member of the

parliament. The constitution stipulates that a minister who is not a member of the parliament for a period of 6 consecutive months ceases to be a minister.

The Ministers are collectively responsible to the parliament in general and to the Lok Sabha in particular (Art.-75). They act as a team and Swim and Sink together.

45. (c) The themes of paintings found here are of great variety, ranging from Mundane events of daily life in those times to sacred and royal images. These include hunting, dancing, music, horse and elephant riders, animal fighting, honey collection, decoration of bodies and other household scenes.

The rock art of Bhimbetka has been classified into various groups on the bases of style, technique and superimposition.

**Source:** Indian Art : XI<sup>th</sup>

46. (c) The Indian theatre has a tradition of at least 5000 years. Theatre in India started as a narrative elements made our theatre essentially theatrical right from the beginning. That is why the theatre in India has encompassed all the other forms of literature and fine arts into its physical presentation.

Some of the traditional theatre forms in India are

- Yakshagana (Karnataka)
- Teyyam (Kerala)
- Koodiyattam (Kerala)
- Bhand Pather (Kashmir)
- Swang (Haryana)
- Nautanki (UP)

47. (b) Mahal wari system was introduced in 1833 during the period of William Bentick. In this system owner ship rights were vested with the peasants. It had many provisions of both the Zamindari system and Ryotwari system. In this system, the land was divided into Mahals. Each Mahal comprised of one or more villages.

48. (b) In India, natural lakes (relatively few) mostly lie in the Himalayan region, the flood plains of Indus, Ganga and Brahmaputra.

- On the basis of their nutrient content, they are categorized as oligotrophic (very low nutrient), mesotrophic (moderate nutrients) and Eutrophic (highly nutrient rich).
- Vast majority of lakes in India are either eutrophic or mesotrophic because of the nutrients derived from their surroundings or organic wastes entering them.

49. (c) The NHRC is a multi-member body consisting of a chairman and four members. The chairman should be a retired chief justice of India and other members should be a serving or retired judge of the Supreme Court or of High Court.

The chairman and members hold office for a term

of 5 years or until they attain the age of 70 years, whichever is earlier. After their tenure, the chairman and members are not eligible for further employment under the central or a state government.

50. (b) Buddhist Literature: Sutta Pitaks, Vinay Pitaks, Abhidhamma Pitaks, Milanda Panho, Angular Nikaya.

Jain Literature: Kalp Sutra, Nayadhamma Kaha, Acharang Sutra.

51. (c) **Article - 137:** Supreme court shall have the power to review any judgement pronounced or order made by it.

**Article - 144:** All authorities, civil and judicial, in the territory of India shall act in aid of the Supreme court.

52. (b) The greenhouse effect is a natural process that warms the Earth's surface. When the Sun's energy reaches the Earth's atmosphere, some of it is reflected back to space and the rest is absorbed and re-radiated by greenhouse gases. Greenhouse gases include water vapour, carbon dioxide, methane, nitrous oxide, ozone and some artificial chemicals such as chlorofluorocarbons (CFCs). The absorbed energy warms the atmosphere and the surface of the Earth. This process maintains the Earth's temperature at around 33 degrees Celsius warmer than it would otherwise be, allowing life on Earth to exist.

53. (c) On the eve of Independence, Industry (manufacturing) sector had minimum share in GDP (around 15%) and agriculture sector had maximum share (around 53%). The share of Agriculture has consistently declined while that of services sector has consistently increased over the years.

The share of services sector in GDP was around (33%) in 1950-51, while it has risen to around (54%) in 2018-19.

While the share of Agriculture sector (primary sector) has decreased, the dependency of population on agriculture for the employment has increased. This is a big reason to worry for Government of India.

54. (a) At present only six states have a bicameral legislature.

State having a bicameral legislature.

- Andhra Pradesh
- Bihar
- Karnataka
- Maharashtra
- Telangana
- Uttar Pradesh

– The parliament can abolish a legislative council or create it if the legislative assembly of the concerned State passes a resolution to that effect.

– Such a specific resolution must be passed by the state assembly by a special majority.

55. (c) The horse latitudes are located at about 30 degrees north and south of the equator. It is common in this region of the subtropics for winds to diverge and either flow toward the poles (known as the prevailing westerlies) or toward the equator (known as the trade winds). These diverging winds are the result of an area of high pressure, which is characterized by calm winds, sunny skies, and little or no precipitation. The horse latitudes are regions located at about 30 degrees north and south of the equator. These latitudes are characterized by calm winds and little precipitation.
56. (d) Though animals were painted in a naturalistic style, humans were depicted only in a stylistic manner. The artists of Bhimbetka used many colours, including various shades of white, yellow, orange, red, green and black. The paints were made by grinding various rocks and minerals. At many rock art sites a new painting is painted on top of an older painting.  
At Bhimbetka, in some places, there are as many as 20 layers of paintings, one on top of another.  
**Source:** N.C.E.R.T : Indian Art-XI
57. (c) The places near the equator are warmer than the places which are far away from it. This is because the rays of the sun fall vertical on the equator and slanting in the temperate and polar regions. The vertical rays are concentrated over a small area than the slanting one. Again, the vertical rays pass through a shorter distance in the atmosphere before reaching the earth's surface.
58. (b) Kamneng, Manas, Raidak and Jaldhaka are tributaries of Brahmaputra.
59. (d) Mankidia are classified as particularly Vulnerable Tribal Groups in Odisha. These are expert in monkey hunting and the state's Forest department has asked its personnel to learn hunting techniques to contain the monkey menace.
60. (d) Jainism taught five doctrines. It is believed that only the fifth doctrine, observe continence, was added by Mahavira and the other four were taken over by him from Previous teachers. In Jaina Philosophy the existence of God is accepted but it placed the god lower than Jina.
61. (b) Option (1) is not correct. Torrid Zone is the largest of the thermal zones. It covers almost half the area of the earth's surface. It is situated between the Tropic of Cancer ( $23\frac{1}{2}^{\circ}\text{N}$ ) and Tropic of Capricorn ( $23\frac{1}{2}^{\circ}\text{S}$ ). The Frigid Zones are the coldest regions of Earth and are generally covered in ice and snow. The Polar Regions have a very cold climate. These places are sometimes called the Frigid Zones. The Polar Regions are located around the North Pole and the South Pole.
62. (b) Suspensive veto-when president returns a bill for reconsideration of the parliament.  
President does not possess suspensive veto in the case of money bills. The president can either give his assent to a money bill or withhold his assent to a money bill but cannot return it for the reconsideration of the parliament.  
President has no veto power in respect of a constitutional amendment bill. The 24<sup>th</sup> constitutional Amendment Act of 1971 made it obligatory for the president to give his assent to a constitutional amendment bill.
63. (a) Mitosis is the division in which daughter cells are formed with equal number of chromosomes to that of the parental cells. This type of division is known as equational division. Mitosis is usually restricted to diploid cells but with few exceptions where some haploid cells also undergo mitosis.
64. (c) Refer to Map of World
65. (c) Article 16(4) of the constitution explicitly clarifies that a policy like reservation will not be seen as a violation of right to equality.  
The supreme court has ruled that (Article-21) also includes right to live with human dignity, free from exploitation.  
The court has held that right to shelter and livelihood is also included in the right to life because no person can live without the means of living, that is means of livelihood.
66. (d) The presiding officer of Lok Sabha is known as Speaker. The members of the House elect him. His/her decisions in all parliamentary matters are final. She also rules on points of order raised by the members and her decision is final. He/she is the custodian of rights and privileges of the members. He/she disqualifies a member of his/her membership in case of defection. He/she also accepts the resignation of members and decides about the genuineness of the resignation. In case of joint sitting of Lok Sabha and Rajya Sabha, the Speaker presides over the meeting.
67. (d) Least distance of distinct vision and near point is the same. It is therefore same for all individuals.
68. (b) A High Court has the right of superintendence and control over all the subordinate courts in all the matter of judicial and administrative nature. In the exercise of its power of superintendence, the High Court may call for any information from the lower courts; may make and issue general rules and prescribe norms for regulating the practice and proceedings of these courts; and it may issue such directions, from time to time, as it may deem necessary. It can also make rules and regulations relating to the appointment, demotion, promotion and leave of absence for the officers of the subordinate courts.



69. (b) Malwa plateau is located in the north of Vindhya ranges and Bhander plateau to the north of Mahadeo Hills. The correct order of the given plateaus from east to west is Chota Nagpur plateau → Baghelkhand → Bhander plateau → Malwa plateau
70. (d) Both options (1) and (2) are wrong. The succession tradition of Mughals was not that of primogeniture. Instead, they followed the Mughal and Timurid custom of coparcenary inheritance. In primogeniture, the eldest son inherits his father's estate. In coparcenary, the inheritance is divided amongst all the sons.
71. (c) The Maratha ruler Chhatrapati Shivaji Maharaj was the founder of the navy of the Maratha military forces. Immediately after the conquest of Kalyan and Bhivandi (1658), Shivaji built up his naval bases there. His conquest of the south Konkan coast (1661) further expanded his naval might. This expanded brought the Marathas directly into contact with the naval power of the Siddis of Janjira, a rocky island 45 miles south of Bombay.
72. (d) Holographic Technology is being used in different fields like Health and medicine, Engineering and Technology, tradeshows, telepresence etc. A 3-D holographic model of buildings and architectural designs gives a real time experience. Holographic imaging is used in medicine to create a 3D image of interior organs of a patient's body. Holographic display is useful during tradeshows to launch and present any product without actually transporting the product at the site. Similarly, holographic telepresence is used to address people at different places simultaneously.
73. (d) In the midst of this economic and political crisis, the ruler of Iran, Nadir Shah, sacked and plundered the city of Delhi in 1739. There were many reasons that led Nadir Shah to conquer India. One reason was that during that time, Muhammad Shah, the Mughal emperor of Delhi, had humiliated the Persian envoy at Delhi's royal court. Muhammad Shah completely stopped exchange of ambassadors with the royal court of Persia. This was a great insult to Nadir Shah, which compelled him to invade India. He was also compelled to invade India because Muhammad Shah had refused to return the refugees under the Mughal Empire. Another reason that led to the invasion was to plunder the huge wealth of India that Nadir Shah came to know about.
74. (c) The demands put forward by Gandhi were as follows:
  - Reduce expenditure on Army.
  - Introduce total prohibition.
  - Carry out reforms in criminal Investigation Department (CID)
  - Accept postal Reservation Bill.
  - Reduce land revenue by 50 percent.
  - Abolish Salt tax and government's salt monopoly.
  - Reserve coastal shipping for Indians.
  - Change Arms Act allowing popular control of issue of firearms licences.
75. (b) Capital Receipts are essentially a two way transactions. It means once disbursed money will come in the form of regular income or at the time of disposal if any asset was created out of the disbursed money.  
Source of Capital Receipts are:
  - Market loans (net)
  - Treasury Bills Issued to RBI and Banks
  - Funded Securities
  - Other special securities issued to RBI
  - Ways and Means Advance
  - Special floating and other loans
  - Securities against small savings
  - Small saving scheme
  - Provident funds
  - Non-debt capital receipts
76. (c) In Proportional Representation System voters exercise their preference for a party and not a candidate. The seats in a constituency are distributed on the basis of votes polled by a party. Thus, representatives from a constituency would and do belong to different parties. And more than one candidate can be elected from one constituency.  
**Source:** N.C.E.R.T. (Std. XI<sup>th</sup>) (Polity–Chapter 3)
77. (d) Under the wildlife (protection) Act, 1972, elephant is a schedule I animal.  
Also Asian elephants are listed as “endangered” in the IUCN Red List of threatened Species.
78. (d) Both options (1) and (2) are wrong. According to ain-i-akbari, two types of peasants were mentioned—**Khud-kashta** and **Pahi-kashta**. Khud Kashta permanently lived in villages. They had their own land and practised agriculture over there, while the Pahi Kashta cultivated land on a contractual basis, which originally belonged to someone else. People became Pahi-Kashta either out of a choice (e.g. when terms of revenue were more favourable in other village) or out of compulsion (e.g. forced by economic distress after a famine).
79. (a) SDR is a reserve created by International Monetary Fund (IMF), to help countries that have Balance of Payment Problem.  
The member countries have to contribute to this account. The contribution is in proportion of their IMF quota. It is held with the government or the central bank of the member countries. In India SDR is held with RBI's exchange reserve.  
**Source:** Key Concepts – Shankarganesh



80. (c) Tundra biome is devoid of trees except stunted shrubs in the southern part of tundra biome, ground flora includes lichen, mosses and sedges.  
The dominating vegetation of Taiga/Boreal biome is coniferous evergreen mostly spruce with some pine and firs.  
The Tundra biome is found in Northern and Southern most region of world adjoining the ice bound poles. The Taiga / boreal biome is found in Northern Europe, Asia and North America.
81. (d) The amount of Nitrogen fixed by man through industrial process has far exceeded the amount fixed by the Natural Cycle. As a result Nitrogen has become a pollutant which can disrupt the balance of Nitrogen. It may lead to Acid rain, Eutrophication and Harmful Algal Blooms.
82. (c) The Global Multidimensional Poverty Index (MPI) was developed in 2010 by the Oxford Poverty and Human Development Initiative (OPHI) and the United Nations Development Programme; it uses different factors to determine poverty beyond income based lists. It replaced the previous Human Poverty Index.  
**Source:** The Hindu
83. (c) GM crops contaminate and cross-pollinate with non-GM crops and create super weeds. GM crops do impact unintended organism including beneficial organisms like bees and butterflies along with predators.  
– No is house scientific study has been carried out till date to study the impact of GM crops on human health.  
– Bt toxin produced in GM Bt crops is present in every part of the plant, so when the parts that have not been harvested decompose, a considerable amount of the toxin may reach the soil.
84. (b) The Son is the only big river to join the Ganga directly from the southern plateau. Son is the right bank tributary of Ganga and it joins Ganga near Patna.  
Ambala is located on the water divide between the Indus and the Ganga river system. The plains from Ambala in the northwest to Sunderbans in the east stretch over nearly 1800 km. During its entire stretch from Haryana to Bangladesh, there is a fall of hardly 300 metres in its slope.
85. (d) 1. The preamble states that the constitution derives its authority from the people of the India.  
2. It declares India to be a Sovereign, Socialist, Secular democratic and republican polity.  
3. It specifies justice, liberty, equality and fraternity as the objectives.
86. (a) The Sources of Revenue Receipts are:  
1. Tax Revenue : Union Excise Duty  
: Customs Duties  
: Corporate Tax  
: Income Tax  
: Service Tax  
: Taxes of UTs  
: Other Taxes & Duties.
2. Non Tax Revenues : Interest Receipts  
: Dividends and Profits
3. Other Non-Tax Receipts  
– Fiscal Services – currency, coinage, mint  
– Other General Services  
– Social Services like education, health, culture  
– Economic Services  
– Grants in Aid Contributions
87. (b) As per the provision of Article 148 of Indian Constitution, the post of the Comptroller and Auditor General has been envisaged. The Attorney general of India is appointed by the President as per Article 76(1) of the Indian Constitution.
88. (c) S2: A minimum of 10 job seekers shall apply to sanction a new work under MGNREGA.  
S1: The Gram Panchayat after due verification will issue a Job Card. The Job Card will bear the photograph of all adult members of the household willing to work under MGNREGA and is free of cost.  
S3: At least one-third beneficiaries shall be women who have registered and requested work under the scheme.
89. (a) S1: ICMR is neither a statutory body nor a regulatory body. It is only the apex body in India for formulating, coordinating and promoting biomedical research. It doesn't have the power to directly initiate punitive action.  
S2: According to the Clinical Trial Rules, only the Drugs Controller General of India (DCGI) can initiate action when investigators fail to comply with the Drugs and Cosmetics Act or the Rules. And in such cases, the DCGI may – after giving a show-cause notice – issue a warning, reject the trial's results, suspend or permanently cancel the permission granted and/or debar the investigator or sponsor from conducting any trials in future.
90. (a) Atal Bhoojal Yojana is an ambitious plan aimed at efficient management of available water resources. The emphasis of the scheme will be on recharge of ground water sources and efficient use of water by involving people at the local level. The half of the fund of 6000 crore will be supported by a World Bank loan of 3000 crore and the rest will be funded by central government. It would initially be implemented with community participation in Gujarat, Maharashtra, Haryana, Karnataka, Rajasthan, Uttar Pradesh and Madhya Pradesh.

91. (a) RBI is the manager of Foreign Exchange and it manages it as per the provision of the Foreign Exchange Management Act, 1999.
92. (a) Article 243 I - The governor of a state shall constitute a finance commission to review the financial position of the Panchayats. The commission will be constituted every five years. As per the provision of Article 243 H - The state legislature may - authorize a Panchayat to levy, collect and appropriate taxes, duties, tolls and fees; assign to a panchayat taxes, duties, tolls and fees levied and collected by the state government; provide for making grants-in-aid to the Panchayats from the consolidated fund of the state; and provide for constitution of funds for crediting all moneys received by or on behalf of the Panchayats.
93. (c) The Global State of Democracy Report, 2021 was recently released by the International Institute for Democracy and Electoral Assistance. The reports refer to three main regime types: democracies, hybrid and authoritarian regimes. Hybrid and authoritarian regimes are both classified as non-democratic.
94. (c) • FRBM review panel had recommended the criterion of debt as a parameter for fiscal responsibility the central share being 40% and state 20%. Also, in terms of domestic liabilities the figures are actually reverse i.e. central government 49% and state 21%.  
• A State may not without the consent of the Government of India raise any loan if there is still outstanding any part of a loan which has been made to the State by the Government of India or by its predecessor Government, or in respect of which a guarantee has been given by the Government of India or by its predecessor Government
95. (b) • The 19th edition of the Indian and French Navy bilateral exercise 'VARUNA-2021' was conducted in the Arabian Sea from 25th to 27th April 2021. Hence, statement one and three is correct.  
• This is the first time that the United Arab Emirates (UAE) is participating in the Varuna maritime exercise with India and French. Hence, statement two is not correct.
96. (b) • 'Economic and Social Survey of Asia and the Pacific 2021: Towards post-Covid-19 resilient economies' has recently been released by the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP). Hence, statement one is not correct.
- The study of the report focuses on a significant aspect or challenge relevant to the economies of the Asia Pacific region. Hence, statement two is correct.
97. (c) • Cryptocurrency is a specific type of virtual currency, which is decentralised and protected by cryptographic encryption techniques. Bitcoin, Ethereum, Ripple are a few notable examples of cryptocurrencies. Hence, statement one is correct.  
• Originally, Bitcoin was intended to provide an alternative to fiat money and become a universally accepted medium of exchange directly between two involved parties. Hence, statement two is not correct. Fiat money is a government-issued currency that is not backed by a commodity such as gold. It gives central banks greater control over the economy because they can control how much money is printed. Most modern paper currencies, such as the US dollar and Indian Rupee are fiat currencies.  
• All the transactions ever made are contained in a publicly available, open ledger, although in an anonymous and an encrypted form called a blockchain. Blockchain is a shared, immutable ledger that facilitates the process of recording transactions and tracking assets in a business network. Hence, statement three is correct.
98. (d) Lithium is a silvery-white alkali metal. It is highly reactive and flammable, and must be stored in inert atmosphere. Lithium-ion battery is used in mobile phone batteries. Lithium Polymer and Lithium-Ion are the most advanced batteries used in modern mobile and smart-phones.
99. (a) Khel Ratna Award formerly known as the Rajiv Gandhi Khel Ratna Award is now officially known as the Major Dhyan Chand Khel Ratna Award in Sports and Games. It is the highest sporting honour of India established in 1992 and awarded first time to Viswanathan Anand. Leander Paes received this award in 1997.
100. (c) Tennis player from United States, Samir Banerjee is the winner of Boys' Singles at Wimbledon 2021. *Nikola Mektic and Mate Pavic* became the first all-Croatian pair to lift the *men's doubles* title at Wimbledon. Russian tennis players *Elena Vesnina* and *Veronika Kudermetova* lost to Hsieh Su-wei and Elise Mertens in the final of Wimbledon Women's Doubles.

## 2

## MOCK TEST

1. Consider the following statements:

1. The Fundamental Duties are confined to citizens only and do not extend to foreigners.
2. Fundamental Duties are non-justiciable.
3. There is no legal sanction against the violation of fundamental duties.

Select the correct statement/statements using the codes given below:

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

2. Consider the following statements:

1. Sulphur dioxide ( $\text{SO}_2$ ) is a major contributor to smog and acid rain.
2. Paper industry releases ( $\text{SO}_2$ ) in the environment.

Select the correct statement/statements using the codes given below:

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

3. Consider the following statements with reference to the Veerashaiva Lingayats.

1. They were followers of Basavanna
2. They worship Shiva in his manifestation as a Linga.
3. They believed in the theory of rebirth.

Which of the statements given above is/are correct?

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

4. Which of the following is/are characteristics of the hot, wet Equatorial Climate:

1. Uniformity of temperature throughout the year.
2. Well defined winter season.
3. Heavy precipitation.

Select the correct answer using the codes given below:

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

5. Consider the following statements:

1. Inflation benefits the debtors.
2. Inflation benefits the bond-holders.

Which of the statements given above is/are correct?

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

6. Consider the following statements:

1. Estuaries are the most productive water bodies in the world.
2. An estuary has very little wave action
3. Estuaries are located at the higher end of a river and are not subjected to wave fluctuations.

Select the correct answer from the codes given below:

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

7. With reference to the Coal to Liquid (CTL) technology consider the following sentences.

1. Coal to Liquid (CTL) technology is an alternative route to produce diesel and gasoline
2. It makes economic sense only in a world of high crude oil prices.
3. Coal can be converted into liquid fuels like gasoline/diesel by indirect liquefaction technique through Fischer-Tropsch route.

Which of the statements given above is/are correct?

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

8. The Marathas reached the zenith of their power during the rule of Shahu. With reference to 'factors that led to the rise of the Peshwas, which one of the following statements is/are correct?

1. All the three Peshwas of Shahu – Balaji Vishwanath, Baji Rao and Balaji Baji Rao – were competent.
2. They rose to be good diplomats and commanders.
3. They provided the Marathas an ideal – ideal of extending their power and influence towards the North.

Which of the statements given above is/are correct?

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

9. With reference to 'Subsidiary Alliance system', which one of the following statements is/are correct?

1. The Subsidiary Alliance System was introduced by lord Dalhousie Governor-general of India.
2. Under this system, Indian rulers under British protection suspended their native armies, instead maintaining British troops within their states.

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

10. Consider the following statements with reference to peninsular rivers.

- (i) These rivers flow over soft, resistant and easily erodable bed rocks.
- (ii) These rivers form wide U shaped valleys.
- (iii) Their flood plains are narrow, senile and lateral erosion is absent in them.

- Which of the above mentioned statements are correct?  
 (a) (i) and (ii) (b) only ii  
 (c) (ii) and (iii) (d) all are correct
11. Read the following statements about Super Pressure Balloon Technology,  
 1. Super Pressure Balloon Technology serves as low-cost, near-space access for scientific payloads  
 2. The Super Pressure Balloon is made up of **polyethylene** film  
 Select the correct statement/statements using the codes given below:  
 (a) 1 only (b) 2 only  
 (c) Both 1 and 2 (d) Neither 1 nor 2
12. Consider the following statements:  
 1. The president can pardon sentences inflicted by court martial while governor cannot.  
 2. Both president and governor can pardon death sentence.  
 Select the correct statement/statements using the codes given below:  
 (a) 1 only  
 (b) 2 only  
 (c) Both 1 and 2  
 (d) Neither 1 nor 2
13. Which of the following factors limit the productivity of Aquatic ecosystems:  
 1. Sunlight  
 2. Amount of oxygen dissolved in water.  
 3. Moisture.  
 4. Transparency  
 5. Temperature  
 Select the correct answer from the codes given below:  
 (a) 1, 2, 3 and 4 (b) 2, 3, 4 and 5  
 (c) 1, 2, 4 and 5 (d) All the above
14. Consider the following statements with reference to the Government of India Act. 1919  
 1. Dyarchy was introduced in provinces.  
 2. Provincial Legislative councils were expanded.  
 3. Voting rights was further curtailed.  
 Select the correct answer from the codes given below.  
 (a) 1 and 2 only (b) 2 and 3 only  
 (c) 1 and 3 only (d) 1, 2 and 3 all
15. Consider the following statements with reference to the Vermin animals.  
 1. They pose a threat to human and their livelihood.  
 2. They are schedule II animals under Wildlife (protection) Act, 1972.  
 3. States have no rights in declaring an animal as Vermin.  
 Select the correct answer from the codes given below:  
 (a) 1 only (b) 2 and 3 only  
 (c) 1 and 3 only (d) 1, 2 and 3 all
16. In 1882 for educating and imparting skills to widows and other poor women to make them economically self reliant, who formed the Ladies Society in Calcutta.  
 (a) Swarnakumari Devi  
 (b) Ramabai Saraswati  
 (c) Sarala Devi Chaudhurani  
 (d) Malati Patwardhan
17. Which among the following are/is sources of Eutrophication:  
 1. Chemical fertilizers  
 2. Manure  
 3. Aquaculture  
 4. Fossil fuel combustion  
 Select the correct answer using the codes given below:  
 (a) 1, 2 and 3 (b) 2, 3 and 4  
 (c) 1, 3 and 4 (d) All of the above
18. Consider the following statements:  
 1. Spines of cactus are modified leaves.  
 2. Edible parts of onions are Modified leaves.  
 3. Modified leaves of saffron called threads are used as seasoning agent in food.  
 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
19. Consider the following statements:  
 1. The caves of Ajanta were excavated mainly during the time of Vakatakas.  
 2. The caves of Ajanta have sculptures and paintings on ceilings and walls.  
 Select the correct answer from the codes given below.  
 (a) 1 only  
 (b) 2 only  
 (c) Both 1 and 2  
 (d) Neither 1 nor 2
20. Consider the following statements:  
 1. The western cyclonic disturbances are weather phenomena of the summer months.  
 2. They usually influence the weather of the north and north-western regions of India.  
 With reference to the Climatic phenomenons of India, which of the above statements stands true?  
 (a) 1 only (b) 2 only  
 (c) Both 1 and 2 (d) Neither 1 nor 2
21. Consider the following statements:  
 1. The Sun is vertically overhead at tropic of cancer on winter solstice.  
 2. The Sun is vertically overhead at tropic of Capricorn in Summer Solstice.  
 3. Beyond the tropics the sun is never overhead at any time of the year.

Select the correct statement/statements using the codes given below:

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

22. With reference to the functions of Zila Parishad considers the following statements:

1. Zila Parishad links panchayat samitis within the district.
2. Zila Parishad looks after development works in the entire district.

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. A stupa is mainly a tumulus or mound containing the relics of the Buddha. In this context consider the following statements.

1. The largest concentration of stupas is in Andhra Pradesh.
2. The best preserved examples of stupas are at Sanchi in Madhya Pradesh and Sarnath.

Select the correct answer from the codes given below:

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

24. With reference to the 'Climatic Variations in India' considers the following statements:

1. The range of temperature increases as one move away from interior parts of the country to coastal areas.
2. The people living along Konkan and Malabar coasts do not experience extremes of temperatures or marked change in seasons.
3. People living in north western parts of India, experience sharp seasonal contrasts.

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 only

25. With reference to Inter State Council, which among the following statements stands false?

- (a) Its functions are complementary to Supreme Court's Jurisdiction under Art 131 to decide a legal controversy between the state governments.
- (b) Composition of Inter State Council also includes Six Central Cabinet Ministers, including Home Minister.
- (c) It is a recommendatory body and not a permanent constitutional body.
- (d) All the Chief Ministers except those of Union Territories are included in the composition of Inter State Council.

26. With reference to the 'Rivers in India' considers the following statements:

1. The Himalayan Rivers have very large basins.
  2. Himalayan rivers are seen in their flow pattern which is perennial.
  3. The peninsular rivers, flow through shallow valleys.
- 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 only

27. Consider the following statements with reference to fundamental rights:

1. There is a clear tension between right to life and personal liberty and the provision for preventive detention.
2. Any genuine protest against an act or policy of government by the people cannot be denied permission.

Choose the correct statements using the codes given below.

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) None of these

28. Consider the following statements:

1. Montreux Record is a register of wetland sites.
2. It is maintained as part of the Ramsar List.

Select the correct statement/statements using the codes given below:

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

29. In the context of Vedic Period consider the following statements.

1. The basic and the highest political unit of Vedic period were Kula and Jana respectively.
  2. Monogamy and polygamy were generally practiced.
- Which of the statement/statements given above is/are correct.

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

30. Which of the following constitutes capital account.

1. Foreign Loans
2. Foreign Direct Investment.
3. Private Remittances.
4. Portfolio Investment.

Select the correct answer using the codes given below:

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

31. With reference to "National Commission for Scheduled Tribes" consider the following questions.

1. It found place in the original constitution as implemented on 26-Jan 1950.
2. It consists of a chairperson, a vice-chairperson and 3 other members.
3. The commission is vested with the power to regulate its own procedure.



Which of the above statement is/are true.

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

32. Consider the following statements with respect to Deep Ocean Mission:

1. It will help India harness various living and non-living (water, mineral and energy) resources from the seabed and deep water.
2. The Ministry of Earth Sciences (MoES) is the nodal agency for the mission.

Which of the above is/are correct?

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

33. Consider the following statements with reference to the Olive Ridley turtles:

1. They are smallest and most abundant of all the sea turtles.
2. They are carnivorous.
3. They are found only in warmer waters.

Select the correct answer from the codes given below:

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

34. With reference to the Foreign Investment, which of the following constitutes portfolio investment:

1. Foreign Institutional investment (FII)
2. Depository Receipts
3. Shares acquired by way of IPO
4. Offshore funds

Select the correct answer using the codes given below:

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

35. With which of the following country/countries china does not have free trade agreement?

- (i) Maldives (ii) India  
(iii) Pakistan (iv) Sri Lanka

Select the correct answer using the codes given below.

- (a) (ii) and (iv) (b) only (iv)  
(c) (iii) and (iv) (d) only (iii)

36. Consider the following statements with reference to metamorphosis in insects:

1. Metamorphosis is a non-essential event in the life cycle of insects except butterfly
2. It is controlled by thyroxine hormone

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

37. With reference to Foreign Investment, which of the following constitutes Foreign Direct Investment (FDI):

1. Shares acquired by way of IPO
2. Shares acquired by way of preferential allotment.
3. Off shore funds.
4. Depository Receipts.

Select the correct answer using the codes below:

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

38. With reference to Asia-Pacific Economic Cooperation (APEC), consider the following statements:

1. It is an intergovernmental economic organisation with 37 member countries.
2. The Regional Comprehensive Economic Partnership (RCEP) is a proposed agreement between the member states of the Asia-Pacific Economic Cooperation (APEC) and its free trade agreement (FTA) partners.

Which of the given above statements is/are correct?

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

39. Regarding Public Accounts Committee, consider the following statements:

1. It examine the annual audit reports of CAG, which are laid before the Parliament by the President.
2. The Committee examines public expenditure to discover technical and economical irregularities.

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

40. Consider the following statements with respect to the National Animal Disease Control Programme (NADCP)

1. NADCP for Foot and Mouth Disease (FMD) and Brucellosis is a programme where fund is shared 80:20 between centre and state
2. The aim of the programme is to control FMD and Brucellosis by 2025 with vaccination.
3. It aims at eradication of FMD and Brucellosis by 2030

Select the correct answer using the codes given below:

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

41. Consider the following statements.

1. North-east India is one of the richest regions of biodiversity in the country.
2. It is especially rich in orchids, bamboos, ferns, citrus, banana, mango and jute.

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

42. What does venture capital mean?:

- (a) A short-term capital provided to industries.  
(b) A long term start up capital provided to new entre-preneurs.  
(c) Funds provided to industries at times of incurring losses.  
(d) Funds provided for replacement and renovation of industries.

43. Consider the following statements with reference to Indian Classical Music:
1. Talas are rhythmic cycles.
  2. Raga is a series of five notes only.
- Select the correct statement/statements using the codes given below:
- (a) 1 only (b) 2 only  
(c) 1 and 2 both (d) Neither 1 nor 2
44. Loss of species is a serious cause of concern for human survival. With reference to biodiversity loss consider the following reasons.
1. Changes in land use
  2. Climate change
  3. Pollution
  4. Invasive alien species
- Select the correct answer using the codes given below
- (a) 1, 2 and 3 only (b) 2, 3 and 4 only  
(c) 1 and 4 only (d) 1, 2, 3 and 4 only
45. Increasing Sea Salinity is a major concern for the environmentalists. In this context, consider the following statements.
1. Change in temperature influences the salinity of sea.
  2. Change in density influences the salinity.
  3. Major source of Sea Salinity is terrestrial discharge by rivers.
- Which of the statement/statements given above are correct?
- (a) 1 and 2 only (b) 2 and 3 only  
(c) 1 and 3 only (d) All the above
46. Consider the following statements with reference to North East Rural Livelihood Project (NERLP).
1. It is implemented only in four North-Eastern States namely Mizoram, Nagaland, Sikkim and Tripura.
  2. It is a central sector scheme externally aided by World Bank.
- Which of the above statement/statements is/are correct?
- (a) Only 1  
(b) Only 2  
(c) Both 1 and 2  
(d) Neither 1 and 2
47. Consider the following statements about Project Elephant.
1. Project Elephant was launched in 1970.
  2. The Ministry of Environment, Forest and Climate Change provides the financial and technical support to major elephant range states in the country through Project Elephant.
- 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
48. Which of the following is/are instrument through which legislature holds executive accountable:
1. Deliberation and discussion.
  2. Approval or Refusal of laws
  3. Financial control.
  4. No confidence motion
  5. Question Hour.
- Select the correct answer using the codes given below:
- (a) 1, 2 and 3 only (b) 2, 3 and 4 only  
(c) 1, 2, 3 and 4 (d) 1, 2, 3, 4 and 5
49. In context of the Gupta period consider the following statements;
1. Women were allowed to listen epics and the Puranas.
  2. The members of the higher order were polygamous.
  3. Women were not allowed to worship.
- Select the correct statement/statements using the code given below :
- (a) 1 only (b) 2 and 3 only  
(c) 1 and 2 only (d) 1, 2 and 3
50. With reference to Carrying capacity concept consider the following statements.
1. Carrying capacity can be defined as a species' average population size in a particular habitat.
  2. Ecosystems can exceed their carrying capacity for a long period of time.
- 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
51. Considers the following statements:
1. Land includes both soil and topography with the physical features of a given location.
  2. Land-man ratio is defined as the ratio between the habitable area and the total population of a country.
- 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
52. With reference to the 'Spatial Distribution of Minerals and Energy Resources' considers the following statements:
1. Coal deposits are mostly associated with Dharwar and Cuddapah system,
  2. Gondwana systems contain resources of major metallic minerals.
  3. Major non-metallic minerals are found in cuddapah and upper vindhyas system.
- Which of the statements given above is /are correct?
- (a) 1 and 2 only  
(b) 1 and 3 only  
(c) 3 only  
(d) 1, 2 and 3 only

53. Consider the following statements:

1. A formal impeachment is not required for removal of vice-president.
2. No ground has been mentioned in the constitution for removal of vice-president.

Select the correct statement/statements using the codes given below:

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

54. With reference to the Government of India Act of 1858, Consider the following statements :

1. The British Governor-General of India was given the title of viceroy.
2. It established 20 member council which was an advisory body.
3. It abolished the Board of control and court of Directors.

Select the correct statement/statements using the code given below:

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

55. With reference to the Balance of Payments, which of the following constitute/constitutes the Invisibles:

1. Non-factor services.
2. Income
3. Private Transfers

Select the correct answer using the codes given below:

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

56. Considers the following statements:

1. People exercise authority through the representatives elected by them.
2. People are called political sovereign.
3. They possess the right to vote a government into power, or to vote a government out of power

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. Read the following statements with reference to gravitational force

1. The force between any two objects is equal to the sum of their masses
2. It is inversely proportional to the root square of the distance between the objects
3. It is a weak force

Select the correct answer using the codes given below:

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

58. Which of the following is/are among the "Terms of Credit".

1. Interest rate
2. Collateral requirement
3. Mode of re-payment

Select the correct answer using the codes given below:

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

59. Consider the following statements with reference to the "Right to Internet Access".

1. Right to access internet comes under fundamental right of expression and cannot be curtailed at any cost.
2. Mumbai is the first state to declare availability of internet as a basic right for every citizen.
3. Nodal officers have been appointed at the state level to keep tabs on the net for offensive material.

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

- (a) (1) and (3)
- (b) (2) and (3)
- (c) (1) and (2)
- (d) All are correct

60. Which of the following is/are correct?

1. No formal impeachment is required for the removal of the Vice-President
2. No functions are attached to the office of the Vice-President as such
3. Dispute regarding election of Vice-President is referred to the Election Commission
4. If the election of a President or the Vice-President is declared void acts done by him prior to the date of such decision shall be invalidated

- (a) 1, 2, 3
- (b) 1, 3, and 4
- (c) 1 and 2
- (d) All of the Above

61. Consider the following statements with reference to Central Pollution Board.

1. It is a statutory body under Ministry of Environment, Forests and Climate Change.
2. It was constituted under water (Prevention and Control of Pollution) Act, 1974.
3. It advises the Central Government on any matter concerning prevention and control of water and air pollution and improvement of the quality of air.

Which of the above statements is/are correct?

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

62. Which of the following is not welfare scheme programme for women?

1. Shakti
2. Pradhan Mantri Ujjwala Yojana.
3. SWADHAR,

Choose the correct answer using the codes given below:

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

63. Consider the following statements with reference to the miniature paintings of the medieval times:
1. The Lepakshi paintings are characterised by the absence of primary colours in general.
  2. Realism is the keynote of the Mughal School of painting.
- Select the correct statement/statements using the codes given below:
- (a) 1 only
  - (b) 2 only
  - (c) Both 1 and 2
  - (d) Neither 1 nor 2
64. With reference to 'the Faraizi sect', which one of the following statements is/are correct?
1. The Faraizi sect was founded by Dudu Miya.
  2. The Faraizis set up parallel administration in some parts of Eastern Bengal.
  3. They asked the peasants not to pay taxes to the Zamindars.
- Select the correct answer using the code below.
- (a) 1 and 2
  - (b) 2 and 3
  - (c) 1 and 3
  - (d) All of above
65. Which of the following statements explains Circadian Rhythm?
1. It is associated with Day and night cycle
  2. It is synchronized with silence and noise phase
  3. It influences physiology of the body
- Select the correct statements using the codes given below:
- (a) 1 and 2 only
  - (b) 2 and 3 only
  - (c) 1 and 3 only
  - (d) 1, 2 and 3
66. The puppet theatre of India has a long and old tradition. String, rod, glove and shadow puppets were well known. In this context consider the following statements.
1. Shadow puppets are flat, leather puppets are made translucent.
  2. Rod puppets are smaller than glove puppets.
- Select the correct statement/statements using the codes given below:
- (a) 1 only
  - (b) 2 only
  - (c) Both 1 and 2
  - (d) Neither 1 nor 2
67. With reference to 'the idea of Swadeshi', which one of the following statements is/are correct?
1. The origin of the idea of Swadeshi can be traced to 1872.
  2. Gandhi gave a new meaning to the idea of Swadeshi
  3. Rabindranath Tagore was popularized the constructive Swadeshi programmes through his writings.
- Select the correct answer using the code below.
- (a) 1 and 2
  - (b) 2 and 3
  - (c) 1 and 3
  - (d) 1, 2 and 3
68. Which of the following is/are among the international initiatives taken to contain Nitrogen Pollution?
1. Gothenburg Protocol
  2. Kyoto Protocol
  3. Minamata Convention
- Select the correct answer using the codes given below.
- (a) Only 1
  - (b) Only 2
  - (c) 1 and 2 only
  - (d) 2 and 3 only
69. Read the following statements with reference to auditory ossicles,
1. Inside human body three pairs of ossicles are present in each ear
  2. These are helpful in increasing the efficiency of transmission of sound waves to the ear.
- Select the correct statement/statements using the codes given below:
- (a) 1 only
  - (b) 2 only
  - (c) Both 1 and 2
  - (d) Neither 1 nor 2
70. The term "Vyommitra" sometimes found in news reference to a:
- (a) Satellite launched by ISRO
  - (b) Web portal developed by ISRO
  - (c) Instrument for Navigation and Information
  - (d) ISRO's first woman half-humanoid astronaut
71. Consider the following statements regarding the PM SVANidhi scheme:
1. The scheme was launched by the Ministry of Finance.
  2. Through the scheme, the central government would extend ₹ 10,000 loan as working capital to street vendors.
- Which of the above is/are correct?
- (a) 1 only
  - (b) 2 only
  - (c) Both 1 and 2
  - (d) Neither 1 nor 2
72. Which of the following is true with reference to the Martial Law:
1. It suspends the government and ordinary law courts.
  2. It is imposed to restore the breakdown of law and order due to any reason.
  3. It has specific provision in the constitution.
- Select the correct answer using the codes given below:
- (a) 1 and 2 only
  - (b) 2 and 3 only
  - (c) 1 and 3 only
  - (d) All 1, 2 and 3
73. Which of the following is/are among the four pillars of Zero Budget Natural farming?
1. Bijamrita (Seed treatment)
  2. Mulching (Soil, straw and live)
  3. Waaphasa (Soil moisture)
  4. Jiwamrita (No fertilizers, No Pesticides)

Select the correct answer using the codes given below.

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

74. In the context of Indian economy, Open Market Operation refers to

- (a) Borrowing by scheduled banks from the RBI.  
(b) Lending by commercial banks to industry and trade.  
(c) Purchase and sale of government securities by the RBI.  
(d) None of the above.

75. Radiation Particles can be of types Alpha, Beta or Gamma particles. In this context consider the following statements:

1. Alpha particles can be blocked by a piece of paper and human skin.
2. Beta particles can penetrate through skin.
3. Gamma rays can not be blocked from penetrating.

Select the correct statement/statements using the codes given below:

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

76. Consider the following statements:

1. Plasma is the liquid portion of blood.
2. Plasma carries water, salts and enzymes in the human body.

Which of the given above statements is/are correct?

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

77. Priority Sector Lending by banks in India constitutes the lending to:

1. Agriculture
2. Export credit
3. Social Infrastructure
4. Renewable Energy

Select the correct answer using the codes given below:

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

78. Consider the following statements regarding protection of Tigers

1. The All India tiger estimation is carried out once in every five years.
2. 'Project Tiger' is a Central Sector Scheme for providing funding support to tiger range States and for in-situ conservation of tigers in designated tiger reserves.

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

79. Choose the correct statements:

1. Supreme court can transfer a case pending in one high Court to another high court.

2. Supreme court exercise power of superintendence over sub-ordinate courts and tribunals.

- (a) 1 only                      (b) 2 only  
(c) Both 1 and 2                      (d) None of the Above

80. Select the correct statement about Free Space Optical Communication technology,

- (a) Data is transmitted by propagation of different electromagnetic waves in vacuum.  
(b) Data is transmitted by propagation of light waves in free space.  
(c) Data is transmitted by propagation of light waves in free space using optical fibers.  
(d) Data is transmitted by propagation of light waves in vacuum using free space optical fibers.

81. Consider the following statements:

1. The Prime Minister constitutes Standing Committees of the Cabinet and sets out the specific functions assigned to them.
2. Cabinet Committee on Appointments decides on all important empanelments and shift of officers serving on Central deputation.
3. The Cabinet Committee on Parliamentary Affairs addresses problems related to Centre-state relations.

Which of the given above statements is/are correct?

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

82. Consider the following statements with respect to Wildlife Institute of India (WII)

1. It works under the Ministry of Environment, forests and climate change.
2. It generates quality information and knowledge products in wildlife science through research and capacity building.
3. It is involved in Tiger Conservation Projects.

Which of the above statements is/are correct?

- (a) 1 and 3                      (b) 1 and 2  
(c) all are correct                      (d) 2 and 3

83. Which of the following is/are not the socialist directive principle as enshrined in part-IV of the constitution:

1. Organise Village Panchayats.
2. Equal pay for equal work for men and women.
3. To prohibit the consumption of intoxicating drinks and drugs.
4. Maternity relief and humane conditions of work.

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

84. The Gangetic gharial has been re-introduced in 3 states where it had become extinct. Which of the following is not among such 3 states?

- (a) Uttar Pradesh                      (b) West Bengal  
(c) Madhya Pradesh                      (d) Rajasthan



85. Consider the following statements about 'Financial Action Task Force':

1. It is an inter- governmental body established in 1989 on the initiative of the G20.
2. Its Secretariat is located at the Organisation for Economic Cooperation and Development (OECD) headquarters in Paris.

The FATF Plenary is the decision making body of the FATF and meets three times per year.

Which of the given above statements is/are correct?

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

86. Consider the following pairs:

1. Tropical dry deciduous : Madhya Pradesh, Gujarat
2. Tropical moist deciduous : Punjab
3. Montane wet temperate : Arunachal Pradesh.

Which among the following pairs represent the dominant vegetation type of the paired state/states.

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

87. Consider the following statements:

1. The World Meteorological Organization (WMO) is an intergovernmental organization with a membership of more than 100 Member States.
2. India Meteorological Department is one of the six Regional Specialised Meteorological Centres of the World Meteorological Organisation.

Which of the given above statements is/are correct?

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

88. Which of the following is/are among the steps taken for conservation of vultures in India?

1. Prohibition on usage of anti-inflammatory diclonofac.
2. Creation of vulture safe zones.
3. India Bird Conservation Network.
4. National Action Plan on Vulture Conservation.

Select the correct answer using the codes given below

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

89. Consider the following statements with respect to LEAP Scheme

1. It is an initiative of online professional development of 15 lakh higher education faculty using the MOOCs platform SWAYAM.
2. It was launched by Ministry of Human Resource Development (MHRD)
3. The implementation of LEAP Programme will be through 15 NIRF top ranked Indian Institutions

Which of the statement(s) given above is/are correct?

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

90. Consider the following statements:

1. Open market operations (OMO) is a tool that the RBI uses to regulate money supply in the economy.
2. RBI carries out the OMO through commercial banks and does not directly deal with the public.

Which of the given above statements is/are correct?

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

91. Consider the following Statements about Reserve Bank of India (RBI)

1. On 26<sup>th</sup> January, 1952, Reserve Bank of India (RBI) was formed.
2. RBI was nationalized in 1949
3. The first Headquarters of Reserve Bank of India (RBI) was formed in Kolkata.

Which of the statement 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

92. With respect to Red Fort of Agra, Consider the following statements:

1. It is situated on the bank of river Yamuna.
2. It was constructed by the Mughal emperor Akbar in 1565.
3. It is tagged as world heritage site by UNESCO in 1989

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

93. Consider the following statements regarding description of Megasthenese.

1. Megasthenese describes the seven castes in India
2. Megasthenese describes slavery system is not found in India
3. There is no famine in India
4. Writing skill was not developed in India.

Which of the above statements are correct?

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

94. Consider the following statements:

1. The Harappan economy was based on agriculture.
2. In Indus Valley Civilization, an elaborate drainage systems are found.
3. In Indus Valley Civilization, sugarcane was unknown.
4. In Kot-Diji, pre-Harappan settlement has not been found.

Which of the above statements is/are correct?

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

95. Which of the following animals have been mentioned in the Rigveda?

1. Cow
2. Horse
3. Goat
4. Buffalo

Indicate your answer from the codes given below:

**Codes:**

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

96. Consider the following statements about the Qutub Minar:

1. Its radius decreases after each storey.
2. It is a five storeyed structure.
3. It was completed by Iltutmish.
4. It has characteristics of both Hindu and Islamic architecture.

Which of the above statements about Qutub Minar are correct?

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

97. Arrange the following rulers of Kashmir in a chronological order:

1. Avantivarman
2. Didda
3. Harsha
4. Jayasingh

Select the correct chronological order from the codes given below:

**Codes:**

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

98. Consider the following statements:

1. Krishnadeva Raya was known as Andhra Bhoja.
2. He authored Amuktamalyada book on polity in Telugu and also a Sanskrit drama called Jambavati Kalyanam.
3. His court was adorned by eight celebrated poets called 'Ashtadiggajas'.

Which of the above statements is/are correct?

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

99. Read the following statements:

1. R Ashwin is India's third-highest wicket-taker in Test cricket
2. He surpassed Kapil Dev's 418 test wickets
3. Shane Warne is the highest wicket-taker in Test cricket

Which of the statements given above is/are correct?

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

100. Read the following statements

1. Neeraj Chopra won India's first-ever individual Gold medal at any Olympics event.
2. India reached its best ever performance in Tokyo Olympics
3. Bajrang Punia was the flag-bearer for India in the closing ceremony

Which of the statements given above is/are correct?

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



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## RESPONSE SHEET

- |                     |                     |                     |                      |
|---------------------|---------------------|---------------------|----------------------|
| 1. (a) (b) (c) (d)  | 2. (a) (b) (c) (d)  | 3. (a) (b) (c) (d)  | 4. (a) (b) (c) (d)   |
| 5. (a) (b) (c) (d)  | 6. (a) (b) (c) (d)  | 7. (a) (b) (c) (d)  | 8. (a) (b) (c) (d)   |
| 9. (a) (b) (c) (d)  | 10. (a) (b) (c) (d) | 11. (a) (b) (c) (d) | 12. (a) (b) (c) (d)  |
| 13. (a) (b) (c) (d) | 14. (a) (b) (c) (d) | 15. (a) (b) (c) (d) | 16. (a) (b) (c) (d)  |
| 17. (a) (b) (c) (d) | 18. (a) (b) (c) (d) | 19. (a) (b) (c) (d) | 20. (a) (b) (c) (d)  |
| 21. (a) (b) (c) (d) | 22. (a) (b) (c) (d) | 23. (a) (b) (c) (d) | 24. (a) (b) (c) (d)  |
| 25. (a) (b) (c) (d) | 26. (a) (b) (c) (d) | 27. (a) (b) (c) (d) | 28. (a) (b) (c) (d)  |
| 29. (a) (b) (c) (d) | 30. (a) (b) (c) (d) | 31. (a) (b) (c) (d) | 32. (a) (b) (c) (d)  |
| 33. (a) (b) (c) (d) | 34. (a) (b) (c) (d) | 35. (a) (b) (c) (d) | 36. (a) (b) (c) (d)  |
| 37. (a) (b) (c) (d) | 38. (a) (b) (c) (d) | 39. (a) (b) (c) (d) | 40. (a) (b) (c) (d)  |
| 41. (a) (b) (c) (d) | 42. (a) (b) (c) (d) | 43. (a) (b) (c) (d) | 44. (a) (b) (c) (d)  |
| 45. (a) (b) (c) (d) | 46. (a) (b) (c) (d) | 47. (a) (b) (c) (d) | 48. (a) (b) (c) (d)  |
| 49. (a) (b) (c) (d) | 50. (a) (b) (c) (d) | 51. (a) (b) (c) (d) | 52. (a) (b) (c) (d)  |
| 53. (a) (b) (c) (d) | 54. (a) (b) (c) (d) | 55. (a) (b) (c) (d) | 56. (a) (b) (c) (d)  |
| 57. (a) (b) (c) (d) | 58. (a) (b) (c) (d) | 59. (a) (b) (c) (d) | 60. (a) (b) (c) (d)  |
| 61. (a) (b) (c) (d) | 62. (a) (b) (c) (d) | 63. (a) (b) (c) (d) | 64. (a) (b) (c) (d)  |
| 65. (a) (b) (c) (d) | 66. (a) (b) (c) (d) | 67. (a) (b) (c) (d) | 68. (a) (b) (c) (d)  |
| 69. (a) (b) (c) (d) | 70. (a) (b) (c) (d) | 71. (a) (b) (c) (d) | 72. (a) (b) (c) (d)  |
| 73. (a) (b) (c) (d) | 74. (a) (b) (c) (d) | 75. (a) (b) (c) (d) | 76. (a) (b) (c) (d)  |
| 77. (a) (b) (c) (d) | 78. (a) (b) (c) (d) | 79. (a) (b) (c) (d) | 80. (a) (b) (c) (d)  |
| 81. (a) (b) (c) (d) | 82. (a) (b) (c) (d) | 83. (a) (b) (c) (d) | 84. (a) (b) (c) (d)  |
| 85. (a) (b) (c) (d) | 85. (a) (b) (c) (d) | 87. (a) (b) (c) (d) | 88. (a) (b) (c) (d)  |
| 89. (a) (b) (c) (d) | 90. (a) (b) (c) (d) | 91. (a) (b) (c) (d) | 92. (a) (b) (c) (d)  |
| 93. (a) (b) (c) (d) | 94. (a) (b) (c) (d) | 95. (a) (b) (c) (d) | 96. (a) (b) (c) (d)  |
| 97. (a) (b) (c) (d) | 98. (a) (b) (c) (d) | 99. (a) (b) (c) (d) | 100. (a) (b) (c) (d) |

ANSWER KEYS																			
1	(d)	11	(d)	21	(b)	31	(b)	41	(c)	51	(c)	61	(d)	71	(b)	81	(a)	91	(b)
2	(c)	12	(a)	22	(c)	32	(c)	42	(b)	52	(c)	62	(a)	72	(a)	82	(b)	92	(a)
3	(b)	13	(c)	23	(c)	33	(b)	43	(a)	53	(c)	63	(c)	73	(d)	83	(b)	93	(d)
4	(b)	14	(a)	24	(c)	34	(b)	44	(d)	54	(c)	64	(b)	74	(c)	84	(b)	94	(b)
5	(a)	15	(a)	25	(d)	35	(b)	45	(a)	55	(d)	65	(c)	75	(a)	85	(d)	95	(d)
6	(a)	16	(a)	26	(d)	36	(d)	46	(c)	56	(d)	66	(a)	76	(c)	86	(c)	96	(d)
7	(d)	17	(d)	27	(a)	37	(a)	47	(b)	57	(b)	67	(d)	77	(d)	87	(c)	97	(a)
8	(d)	18	(d)	28	(c)	38	(d)	48	(d)	58	(d)	68	(c)	78	(d)	88	(c)	98	(d)
9	(b)	19	(c)	29	(a)	39	(c)	49	(c)	59	(a)	69	(c)	79	(d)	89	(c)	99	(a)
10	(c)	20	(b)	30	(b)	40	(b)	50	(d)	60	(d)	70	(d)	80	(d)	90	(c)	100	(c)

## HINTS & EXPLANATIONS

- (d) All the above given statements are true regarding the fundamental duties. There is no legal sanction against the violation of fundamental duties. However parliament is free to enforce them by suitable legislation. Also fundamental duties are non-justiciable that is they are not enforceable in the court.
- (c) Sulphur dioxide ( $\text{SO}_2$ ) is a gas produced from burning coal, mainly in thermal power plants. Some industrial processes, such as production of paper and smelting of metals, produce Sulphur dioxide. It is a major contributor to smog and acid rain. Sulfur dioxide can lead to lung diseases.
- (b) In twelfth century, a new movement was emerged in Karnataka. It was led by a Brahmana named Basavanna. The followers of Basavanna were known as Veerashaiva or Lingayats. Lingayats believe that on death the devotee will be united with Shiva and will not return to this world.
- (b) The most outstanding feature of the equatorial climate is its great uniformity of temperature throughout the year.  
There is no winter. Cloudiness and heavy precipitation help to moderate the daily temperature, so that even at the equator itself, the climate is not unbearable.  
In addition regular land and sea breezes assist in maintaining a truly equable climate.
- (a) In the case of inflation the value of money decreases and so the particular asset held by an investor will not yield much revenue. Inflation will harm the bond-holders.
- (a) Estuaries are located where river meets the sea. Estuaries are water bodies where the flow of freshwater from river mixes with salt water transported by tide from the ocean.  
– Estuaries are the most productive water bodies in the world. They are located at the lower end of a river and are subject to tidal fluctuations.  
– An estuary has very little wave action, so it provides a calm refuge from the open sea. It provides the shelter for some of the animals.
- (d) CTL or coal liquefaction technology can convert coal to synthetic fuels, which are refined into gasoline and diesel fuel. Conventional coalbed gas, which is expelled, trapped, and sealed commonly occur in sandstone reservoirs in coal-bearing sequences. CSIR-Central Institute of Mining and Fuel Research (CSIR-CIMFR), Dhanbad is striving hard to develop an alternative route to produce diesel/gasoline so as to decrease some burden of importing petroleum crude. Coal can be converted into liquid fuels like gasoline/diesel by indirect liquefaction technique through Fischer-Tropsch route. Indirect CTL technology has been the most successful process till date. India has huge coal reserves and can use some part of coal to convert it to diesel/gasoline. Gasification of coal will produce synthesis gas (a mixture of  $\text{CO} + \text{H}_2$ ) which can be liquefied to gasoline/diesel equivalent in presence of cobalt/iron based catalysts at higher pressure and temperature.
- (d) Several factors led to the rise of the Peshwas. While Chhatrapati Shahu was an ease-loving person, Tari Bai was selfish and narrow-minded. None of them was able to provide peace and security to

Maharashtra. The **Asht-Pradhan**, created by Shivaji too had become ineffective in administration. In these circumstances, the Maratha nobles were contending among themselves for power. The Peshwas of Shahu, found solutions to these problems by their capabilities. They rose to be good diplomats and commanders. They provided the Marathas an ideal – ideal of extending their power and influence towards the North. They rose above all other Maratha chiefs by sheer merit and they also led them to become the foremost power in India.

9. (b) Option (1) is wrong because the Subsidiary Alliances system was also introduced by Lord Wellesley in and after 1798. The British, under the subsidiary alliance system, agreed to protect the Indian rulers against external threats and internal disorder but, in return, the Indian rulers who accepted the Subsidiary Alliance system were to agree to the stationing of British contingent for whose maintenance they would pay a subsidy to the British. Indian rulers under British protection suspended their native armies. The ruler under the system of alliance could neither enter into alliance with any other power nor fight a war without prior permission from the British.
10. (c) Peninsular rivers are rain-fed rivers. The rivers flow over hard and resistant rocks. The bed rocks of these rocks are not easily erodable. These rivers have poor development of stream order and form wide U shaped valleys. These flood plains are narrow, senile and lateral erosion is absent in them. These are non-perennial rivers and most of their channel dry up during the summer season.
11. (d) Super Pressure Balloon Technology serves as low-cost, near-space access for scientific payloads. The Super Pressure Balloon is made up of long durable Polyethylene film.
12. (a) Article - 72; Pardoning power of the president.  
Article - (161); Pardoning power of the governor.  
The pardoning power of the governor differs from that of the president in following two respects.
  - The President can pardon sentences inflicted by court martial (Military courts) while the governor cannot.
  - The president can pardon death sentence while governor cannot.  
However governor can suspend, remit or commute a death sentence.
13. (c) Sunlight and oxygen are most important limiting factors of the aquatic ecosystems whereas moisture and temperature are the main limiting factors of terrestrial ecosystems.
  - The factors limiting the productivity of Aquatic Habitats are:
    - Sunlight based on light penetration and plant distribution aquatic ecosystem is categorised into photic and aphotic zones.
    - Dissolved oxygen
    - Transparency
    - Temperature.
14. (a) Voting rights were also given to women through the Governments of India Act. 1919. Thus the scope of franchise was expanded.  
Dyarchy ie rule of Two-executive councillors and popular ministers was introduced. The governor was to be the executive head in the province.
15. (a) Any animal which pose a threat to human and their livelihood especially farming can be declared Vermin.  
They are Schedule V animals under Wildlife (protection) Act, 1972.
  - States can send a list of wild animals to the centre requesting it to declare them Vermin for selective slaughter.
16. (a) By the end of the 19th century, a couple of ladies emerged from within the reformed families who formed organizations of their claim. One of the primary to do so was Swarnakumari Devi, daughter of a Brahmo leader, Devendranath Tagore, and sister of the famous poet Rabindranath Tagore, who shaped the Women Society in Calcutta in 1882 for educating and giving abilities to widows and other destitute women to make them economically self dependent. She edited a women journal, Bharati, in this way gaining herself the distinction of being the first Indian woman editor. Within the same year, Ramabai Saraswati formed the Arya Mahila Samaj in Pune and a couple of years afterward begun the Sharda Sadan in Bombay.
17. (d) Eutrophication is a syndrome of ecosystem, response to the addition of artificial or natural nutrients such as nitrates and phosphates through fertilizers, sewage etc that fertilize the aquatic ecosystem.  
It is primarily caused by the leaching of phosphate or nitrate containing fertilizers from agricultural lands into lakes or rivers.
  - The growth of green algae which we see in the lake surface layer is the physical identification of an Eutrophication.
  - All the above mentioned are the sources of the eutrophication.
18. (d) Leaves are modified into spines in case of cactus and into fleshy edible leaves in onion. Stigma and style



of saffron plants commonly called threads are used as seasoning agent in food.

19. (c) The caves of Ajanta were excavated mainly during the time of Vakatakas. The caves at Ajanta are famous for beautiful sculptures and paintings on ceilings and walls. Bagh caves in Dhar district of Madhya Pradesh are also known for paintings, but most of these have unfortunately deteriorated.

**Source:** N.C.E.R.T : Heritage of India

20. (b) The western cyclonic disturbances are weather phenomena of the winter months brought in by the westerly flow from the Mediterranean region. They usually influence the weather of the north and north-western regions of India.

21. (b) The Sun is vertically overhead at tropic of cancer ( $23^{\circ}2'N$ ) on June/21, this is known as summer solstice.

- The Sun is vertically overhead at tropic of Capricorn ( $23^{\circ}2'S$ ) on 22/December, this is known as winter Solstice.
- The tropics thus mark the limits of the overhead Sun, because beyond these, the Sun is never overhead at any time of the years.

22. (c) The following are the major functions of the Zila Parishad, though you may find some variations across the States:

1. Providing essential services and facilities to the rural population, planning and executing the development programs for the district;
2. Supplying improved seeds to farmers, informing them of new techniques of farming, undertaking the construction of small-scale irrigation projects and percolation tanks, and maintaining pastures and grazing lands;
3. Setting up and running schools in villages, executing programs for adult literacy, and running libraries;
4. Starting Primary Health Centers and hospitals in villages, managing mobile hospitals for hamlets, conducting vaccination drives against epidemics and family welfare campaigns;
5. Executing plans for the development of the scheduled castes and scheduled tribes, running ashram for Adivasi children, and setting up free hostels for scheduled caste students;
6. Encouraging entrepreneurs to start small scale industries like cottage industries, handicrafts, agriculture products, processing mills, dairy farms, etc., and implementing rural employment schemes; and
7. Constructing roads, schools and also taking care of the public properties;

23. (c) A stupa is mainly a tumulus or mound containing the relics of the Buddha. The largest concentration of stupas is in Andhra Pradesh where these were erected mainly between the third century BC and the third century A.D.

The stupas at Nagarjunakonda and Amaravati were covered with beautiful sculptured slabs. The best preserved examples of stupas are at Sanchi in Madhya Pradesh and Sarnath in Uttar Pradesh. Sanchi is famous for its gateways.

**Source:** N.C.E.R.T : Heritage of India

24. (c) Option (1) is not correct. Every day the land heats much faster than the sea, and every night the land cools faster. When the land heats up, the air above it heats up as well. On the other hand, the ocean heats up and cool down relatively slowly. Therefore, areas near the ocean generally stay cooler during the day and have a more moderate temperature range than inland areas. The range of temperature increases as one move away from coastal areas to interior parts of the country.

25. (d) Inter State Council is a recommendatory body on issues relating to inter-state, centre-state and centre and Union Territory relations, composition of Inter State Council includes Prime Minister as the Chairman, Chief Ministers of all states, Chief Ministers of Union Territories having legislative Assemblies, Governors of the States under the President's rule and Six Central Cabinet Ministers, including Home Minister to be nominated by the P.M.

26. (d) The Himalayan Rivers have very large basins. These rivers aided by the bold features of Himalayan relief, continue to perform intensive erosional activity. They display a meandering tendency. Another striking feature of the Himalayan Rivers is seen in their flow pattern which is perennial and is derived from rainfall as well as the snow-melt. The peninsular rivers, on the other hand, flow through shallow valleys which are more or less completely graded in most cases.

27. (a) According to the provision of the preventive detention (Art-22), a person can be arrested simply out of an apprehension that he or she is likely to engage in unlawful activity and imprisoned for some time without following the established procedure. Therefore it comes in conflict with the right to life and personal liberty.

The Rights provided by Art-19(i) i.e. right to freedom of speech and expression is subjected to certain restrictions. Such as public order, peace and morality etc.

Therefore any genuine protest against an act or policy of government by the people may be denied permission.

28. (c) Montreux Record is the principal tool under the Ramsar Convention, is a register of wetland sites on the list of wetlands of International Importance.

It is maintained as part of the Ramsar List.

Montreux Record highlights those sites where adverse changes in ecological character have occurred are occurring or are likely to occur as a result of technological developments, pollution or other human interference and which are therefore in need of priority conservation attention.

29. (a) Monogamy was generally practiced while polygamy was prevalent among the royal and noble families.

30. (b) A capital account shows the net change in physical or financial asset ownership for a nation and together with the current account, constitutes a nation's balance of payments.

The capital account includes foreign direct investment - (FDI), portfolio and other investments, plus changes in the reserve account.

31. (b) In order to Safeguard the interests of the STs more effectively, it was proposed to set up a separate National Commission for STs by bifurcating the existing combined National Commission for SCs and STs.

This was done by passing the 89<sup>th</sup> constitutional Amendment Act of 2003.

- It consists of a chairperson, a vice-chairperson and 3 other members, all appointed by president.
- The commission is vested with the power to regulate its own procedure.

32. (c) Underwater robotics and 'manned' submersibles are key components of the Deep Ocean Mission which will help India harness various living and non-living (water, mineral and energy) resources from the seabed and deep water. The Ministry of Earth Sciences (MoES) is the Nodal Agency for this mission.

33. (b) Olive Ridley turtles are smallest and most abundant of all the sea turtles. They are omnivorous. They are found only in warmer waters, including the Southern Atlantic, Pacific and Indian Oceans.

34. (b) Investment through stock on exchange that is through secondary market is called investment. Portfolio investment refers to investment in various financial instruments like shares, debentures of a company through secondary market. There are three major types of investment. They are

1. Foreign Institutional Investment (FII)

2. Depository Receipts.

3. Offshore funds.

35. (b) China has Free Trade Agreement with Pakistan, and is exploring or negotiating Free Trade Agreements with Bangladesh, Sri Lanka and Nepal.

36. (d) Metamorphosis is an essential stage in life cycle of insects and controlled by insect hormones.

37. (a) Investment through the mode other than the stock exchange is called foreign direct investment in India. There is prescribed size to treat an investment as foreign direct investment. FDI includes the following:

- Shares acquired by way of IPO.
- Shares acquired by way of preferential allotment.
- Shares acquired by way of offer for sale through private arrangement.
- Transfer of shares by way of offer for sale through private arrangement.
- In all these purchases there is direct contact between the securities buyer and the seller company.

**Source:** Key concept- Shanker Ganesh

38. (d) It is a regional economic forum established in 1989 to leverage the growing interdependence of the Asia-Pacific. Aim: to create greater prosperity for the people of the region by promoting balanced, inclusive, sustainable, innovative and secure growth and by accelerating regional economic integration. APEC works to help all residents of the Asia-Pacific participate in the growing economy. APEC projects provide digital skills training for rural communities and help indigenous women export their products abroad. Recognizing the impacts of climate change, APEC members also implement initiatives to increase energy efficiency and promote sustainable management of forest and marine resources. The forum adapts to allow members to deal with important new challenges to the region's economic well-being. This includes ensuring disaster resilience, planning for pandemics, and addressing terrorism.

39. (c) The CAG submits three audit reports to the President, namely, audit report on appropriation accounts, audit report on finance accounts and audit report on public undertaking. The committee examines public expenditure not only from legal and formal points of view to discover technical irregularities but also from the point of view of economy, prudence, wisdom and propriety to bring out the cases of waste, loss, corruption, extravagance, inefficiency and nugatory expenses.

40. (b) National Animal Disease Control Programme for Foot and Mouth Disease and Brucellosis is a 100%

centrally funded programme. It aims to control Foot and Mouth Disease and Brucellosis by 2025 with vaccination and eventual eradication by 2030.

41. (c) The Northeast region of India comprising of the states of Arunachal Pradesh, Assam, Meghalaya, Manipur, Tripura, Mizoram, Nagaland and Sikkim can be physiographically categorized into the Eastern Himalayas, Northeast hills (Patkai-Naga Hills and Lushai Hills) and the Brahmaputra and Barak Valley plains. At the confluence of the Indo-Malayan, Indo-Chinese and Indian biogeographical realms, the NE region is unique in providing a profusion of habitats, which features diverse biota with a high level of endemism. The region is also the abode of approximately 225 tribes in India, out of 450 in the country, the culture and customs of which have an important role in understanding biodiversity conservation and management issues.
42. (b) Venture capital is a long term start-up capital provided to new entrepreneurs.
- Venture capital is financing that investors provide to start up companies and small business that are believed to have long-term growth potential.
  - Venture capital generally comes from well-off investors, investment banks and any other financial institutions.
  - However it does not always take just a monetary form; it can be provided in the form of technical or managerial expertise.
- Source:** The Hindu
43. (a) The concept and practice of raga, according to scholars, matured by the fifth century A.D. Raga is a series of five or more notes, upon which a melody is based. Ragas were recognised named on the basis of several factors, classified and defined.
- Talas are rhythmic cycles. They have a universal unity, besides being quite complicated.
44. (d) The main cause of the loss of biodiversity can be attributed to the influence of human beings on the world's ecosystem, In fact human beings have deeply altered the environment, and have modified the territory, exploiting the species directly, for example by fishing and hunting, changing the biogeochemical cycles and transferring species from one area to another of the Planet.
45. (a) Rivers affect salinity only at areas where they enter sea and not the whole of it.
46. (c) Both the Statements (1) and (2) given in the question are correct. The objective of the project is to improve livelihoods of the poor, especially that of women and the disadvantaged people in the project area. The identification of districts for the project was

done, by the State Governments based on social and economic backwardness.

47. (b) Project elephant is a centrally sponsored scheme launched in February 1992. The scheme helps and assists in the management and protection of elephants to the States having free-ranging populations of wild elephants, in order to ensure the survival of elephant population in the wild and protection of elephant habitat and elephant corridor.
48. (d) The legislature in parliamentary system ensures executive accountability at various stages: policy making, implementation of law or policy during and post-implementation stage.
- The legislature does this through the use of a variety of devices:
- Deliberation and discussion
  - Approval or Refusal of laws
  - Financial Control
  - No Confidence Motion
  - Question Hour.
  - Zero Hour
  - Adjournment motion
  - The most powerful weapon that enables the parliament to ensure executive accountability is the no-confidence motion.
49. (c) In the Gupta period, like the shudras women were also allowed to listen to the epics and the Puranas, and advised to worship Krishna. Members of the higher order came to acquire more and more land which made them more polygamous and more property minded.
50. (d) Exp: Carrying capacity is the number of organisms that an ecosystem can sustainably support.
- The concept of carrying capacity relates the number of organisms which can survive to the resources within an ecosystem. Ecosystems cannot exceed their carrying capacity for a long period of time. In situations where the population density of a given species exceeds the ecosystem's carrying capacity, the species will deplete its source of food, water, or other necessities. Soon, the population will begin dying off. A population can only grow until it reaches the carrying capacity of the environment. At that point, resources will not be sufficient to allow it to continue to grow over the long-term.
51. (c) Land includes both soil and topography with the physical features of a given location. It is also regarded as space, factor of production in economic processes, consumption goods, situation, property and capital. Land-man ratio is defined as the ratio between the habitable area and the total population of a country.

52. (c) Option (1) and (2) are not correct. The distribution of mineral and energy resources is uneven. It's because occurrence of mineral resources are associated with certain types of geological formation. Coal deposits are mostly associated with Gondwana system, Dharwar and Cuddapah systems contain resources of major metallic minerals like copper, lead, zinc etc and major non-metallic minerals like limestone, dolomite, gypsum, calcium, sulphate etc are found in cuddapah and upper vindhyan system.
53. (c) A formal impeachment is not required for the removal of vice-president. He can be removed by a resolution of the Rajya sabha passed by an absolute majority. Notably no ground has been mentioned in the constitution for his removal.
- The vice-president can hold office beyond his term of five years until his successor assumes charge. He is also eligible for re-election to that office. He may be elected for any number of times.
54. (c) In August 1858, the British parliament passed an act that set an end to the rule of the company. It ended the system of double government by abolishing the Board of control and court of Directors. This act established a 15-member council of India to assist the secretary of state for India. The council was an advisory body.
55. (d) The head of invisibles record the receipts and payments regarding services exports and imports and other current account payments viz.
- (1) Non-factor services
  - (2) Income
  - (3) Private Transfers
- Non-factor services refer to all invisible receipts or payments not attributable to conventional factor of production, i.e. labour (remittances from overseas migrants).
  - Income includes transactions regarding income from investments in the form of dividends, profits and interest from loans, rent from house property and income generated through employment.
  - Private transfer include grants, gifts etc.
56. (d) People govern themselves through their elected representatives. People are called political sovereign because they possess the right to vote a government into power, or to vote a government out of power. That is why democracy has sometimes been described as a mode of appointing, controlling and dismissing governments by the people. As provided for, in the Constitution of the land, the citizens cast their votes at regular intervals to elect their representatives to the Parliament, to the Legislative Assemblies, and such other institutions as are essential organs of political power in a democracy. These institutions are called representative institutions precisely because they represent the will of the peoples.
57. (b) Gravitational force is a type of weak force. The force is proportional to the product of the masses of the objects and inversely proportional to the square of the distance between them.
58. (d) Credit plays a vital and very positive role in the economy. Government often plays a very vital role providing institutionalize credit.
- Interest rate, collateral and documentation requirement and the mode of repayment together comprise what is called the terms of credit.
- The terms of credit vary substantially from one credit arrangement to another. They may vary depending on the nature of the lender and the borrower.
  - Collateral is an asset that the borrower own and (such as land, building, vehicle) and uses this as a guarantee to a lender until the loan is repaid.
- Source:** N.C.E.R.T - 10<sup>th</sup> Economics
59. (a) Statements (1) and (3) are correct. Besides this, in March 2017, Kerala became the first state to declare internet as a basic right for every citizen. The search giants are also required to have 'in-house' experts to spot illegal content and pull them down.
60. (d) All doubts and disputes arising out of or in connection with the election of a President or Vice-President shall be inquired into and decided by the Supreme Court whose decision shall be final. If the election of a person as President or Vice-President is declared void by the Supreme Court, acts done by him in the exercise and performance of the powers and duties of the office of President or Vice-President, as the case may be, on or before the date of the decision of the Supreme Court shall not be invalidated by reason of that declaration.
61. (d) All the statements given in the question are correct.
62. (a) SHAKTI is a scheme approved by the Union Cabinet. It is a coal linkage policy to Harness and allocate Koyla (coal) transparently in India. The SWADHAR scheme was launched by the Union Ministry of Women and Child Development for rehabilitation of women in difficult circumstances.
63. (c) The Lepakshi paintings are characterised by the earth tones and the nearly complete absence of blue, in fact primary colours in general.
- Realism is the keynote of the Mughal School of painting. The subjects are largely drawn from incidents connected with the magnificent court life of the time.
64. (b) Option (1) is wrong because Haji Shariatullah of Faridpur was founded the Faraizi sect. Originally



Faraizi movement was fuelled by the grievances of rack-rented and evicted peasants against landlords and British rulers. The Faraizis under Dudu Miyan, the son of the founder of the sect, became united as a religious sect with an egalitarian ideology. His simple way of teaching and belief that all men are equal and land belongs to god and no one has right to levy tax on it appealed to the common peasants. The Faraizis set up parallel administration in some parts of Eastern Bengal and established village courts to settle the peasant's disputes. They protected cultivators from Zamindar's excesses and asked the peasants not to pay taxes to the Zamindars.

65. (c) Circadian Rhythm is associated with Day and night cycle and it also influences various physiological processes inside body. It is not related with silence and noise phases.

66. (a) Shadow puppets are flat, leather puppets made translucent. When they are pressed against the screen with a strong source of light behind it, silhouettes are created on the screen.

Shadow puppets are popular in Andhra Pradesh, Maharashtra, Karnataka, Odisha and Kerala.

Glove puppets are manipulated by the puppeteer in full view of the audience.

Rod puppets are larger than glove puppets. They are manipulated by rods from below. It is found in West Bengal and Odisha.

**Source:** Spectrum : Indian Culture

67. (d) Swadeshi suggests 'of one's claim country'. The origin of the thought can be taken after to 1872 when Mahadev Govind Ranade, in a series of lectures in Poona, advanced the thought of Swadeshi. According to Ranade, the products delivered in one's own country ought to be given preference indeed in case the utilize of such items demonstrated to be less palatable. Within the 1920s Gandhi gave a advanced meaning to the thought of Swadeshi by interfacing it to the satisfaction of a obligation that all Indians owed to the land of their birth. For Gandhi, Swadeshi did not fair mean the use of what is made in one's own nation. Gandhi characterized Swadeshi in taking after words "Swadeshi is that spirit in us which limits us to the utilize and benefit of our prompt environment to the disallowance of more inaccessible.

68. (c) Gothenburg Protocol aims to abate acidification, eutrophication and ground level ozone and is a part of the convention on long Range Transboundary Air Pollution.

Kyoto Protocol aims to reduce the emissions of the Green House Gases such as Methane, Nitrous Oxide,

Hydrofluorocarbons, Perfluorocarbons, Sulphur hexafluoride and carbon dioxide.

The Minamata Convention on Mercury is an international treaty designed to protect human health and the environment from anthropogenic emissions and releases mercury and mercury compounds.

69. (c) Auditory ossicles or ear ossicles present in the each ear as three small bony structures. These are helpful in increasing the efficiency of transmission of sound waves to the ear.

70. (d) Vyommitra is ISRO's first woman half-humanoid astronaut. It will simulate human functions before real astronauts in Gaganyaan crew take off. It will be used for an unmanned flight of ISRO's GSLV III rocket (Gaganyaan Mission) in December 2020, which, along with a second unmanned flight in July 2021. ISRO will send the human-resembling model in a space capsule around the end of 2020 or early 2021 to study how she and later real astronauts respond to living outside earth in controlled zero gravity conditions.

71. (b) The Pradhan Mantri Street Vendors Atmanirbhar Nidhi (PM SVANidhi) scheme was launched by the Ministry of Housing and Urban Affairs. Through the PM SVANidhi scheme, the central government would extend Rs 10,000 loan as working capital to street vendors.

72. (a) MARTIAL LAW

It affects only Fundamental Rights.

- It suspends the government and ordinary law courts.
- It is imposed to restore the breakdown of law and order due to any reason.
- It is imposed in some specific areas of the country.
- It has no specific provision in the constitution. It is implicit.

73. (d) Zero Budget Natural farming is a natural farming technique in which farming is done without use of chemicals and without using any credits or spending any money on purchased inputs. It has been developed by Subhash Palekar.

74. (c) Open Market Operations refer to the purchase and sale of the government Securities by RBI from/to market. The objectives of Open Market Operations is to adjust the rupee liquidity conditions in the economy on a durable basis. When RBI sells government security in the markets the banks purchase them.

75. (a) Gamma rays can penetrate easily to human skin and damage cells on its way through, reaching free and can only be blocked by a very thick, strong, massive piece of concrete.



76. (c) Plasma is the liquid portion of blood. About 55% of our blood is plasma, and the remaining 45% are red blood cells, white blood cells and platelets that are suspended in the plasma. Plasma is about 92% water. It also contains 7% vital proteins such as albumin, gamma globulin and anti-hemophilic factor, and 1% mineral salts, sugars, fats, hormones and vitamins. Helps maintain blood pressure and volume. Supply critical proteins for blood clotting and immunity. Carries electrolytes such as sodium and potassium to our muscles. Helps to maintain a proper pH balance in the body, which supports cell function.
77. (d) **Current Priority Sector Categories**
1. Agriculture
  2. MSME
  3. Export Credit
  4. Education
  5. Housing
  6. Social Infrastructure
  7. Renewable energy and others.
78. (d) The All India tiger estimation is carried out once in every four years. Based on the Tiger Task Force approval, a refined double sampling method using camera traps in a statistical framework was first used in 2006 country level tiger assessment. The second round of such an assessment was completed in 2010. 'Project Tiger' is a Centrally Sponsored Scheme of the Environment, Forests and Climate Change, providing funding support to tiger range States, for in-situ conservation of tigers in designated tiger reserves, and has put the endangered tiger on an assured path of recovery by saving it from extinction, as revealed by the recent findings of the All India tiger estimation using the refined methodology.
79. (d) Nadir Shah was murdered by his troops and his conquests in Afghanistan passed into the hands of one of his commanders Ahmad Shah Abdali. Abdali founded the Durrani dynasty.
- A decisive battle took place between Marathas and Ahmad Shah Abdali at Panipat in 1761. The consequences of the war with Ahmad Shah Abdali were disastrous for the Marathas. It dealt a severe blow to Maratha supremacy in India, particularly in the northern territories. Whatever unity existed among them ended after the war.
- Source:** N.C.E.R.T - 8<sup>th</sup> (old): Modern India
80. (d) In Free Space Optical Communication technology, data is transmitted by propagation of light waves in free space allowing optical connectivity. The technology uses optical beams through free space/vacuum for transmission using an optical transceiver at both ends to provide bidirectional capability.
81. (a) The Prime Minister constitutes Standing Committees of the Cabinet and sets out the specific functions assigned to them. He can add or reduce the number of committees.
- Parliamentary Affairs: The Cabinet Committee on Parliamentary Affairs draws the schedule for Parliament sessions and monitors the progress of government business in Parliament. It scrutinises non-government business and decides which official Bills and resolutions are to be presented.
- Political Affairs: The Cabinet Committee on Political Affairs addresses problems related to Centre-state relations. It also examines economic and political issues that require a wider perspective but have no internal or external security implications.
82. (b) The National Tiger Conservation Authority was established in December 2005 following a recommendation of The Tiger Task Force Constituted by the Prime Minister of India for reorganised management of Project Tiger and many Tiger Reserves in India.
83. (b) To organise village panchayat (Art-40) and prohibition of consumption of intoxicating drugs (Art-47) are Gandhian directive principles (not the Liberal).
84. (b) The Gangetic gharial has been re-introduced in the rivers of Uttar Pradesh, Madhya Pradesh and Rajasthan where it had become extinct.
85. (d) **About Financial Action Task Force:**
- It is an inter-governmental body established in 1989 on the initiative of the G7. Its Secretariat is located at the Organisation for Economic Cooperation and Development (OECD) headquarters in Paris.
- Member Countries: There are 39 member of FATF, representing most financial centres around the world. This includes 2 regional organisations- GCC and EC. The FATF Plenary is the decision making body of the FATF. It meets three times per year.
- Black List: Countries known as Non-Cooperative Countries or Territories (NCCTs) are put in the blacklist. These countries support terror funding and money laundering activities.
- Grey List: Countries that are considered safe haven for supporting terror funding and money laundering are put in the FATF grey list. This inclusion serves as a warning to the country that it may enter the blacklist.
86. (c) Moist deciduous forests are found throughout India except in the western and north-western regions.
- Dry deciduous forests are found throughout the northern part of the country except in the North-east. It is also found in Madhya Pradesh, Gujarat, Andhra Pradesh, Karnataka and Tamilnadu.

- Montane wet temperate forests are found in the region to the east of Nepal into Arunachal Pradesh, receiving a minimum rainfall of 2000 mm.
87. (c) The World Meteorological Organization (WMO) is a specialized agency of the United Nations responsible for promoting international cooperation on atmospheric science, climatology, hydrology and geophysics.
- The WMO is made up of 193 countries and territories, and facilitates the “free and unrestricted” exchange of data, information, and research between the respective meteorological and hydrological institutions of its members.
- IMD is also one of the six Regional Specialised Meteorological Centres of the World Meteorological Organisation.
88. (c) **Conservation steps taken for vultures in India includes**
- Prohibition on usage of anti-inflammatory Diclonofac
  - National Action Plan (2006) on Vulture Conservation
  - Vulture Safe Zones (in-situ conservation initiative)
  - Ramadevarabetta Vulture Sanctuary
- The Indian Bird Conservation Network was established in 1998 by the Bombay Natural History Society (BNHS). It is a network of NGOs and individuals to monitor and safeguard important Bird Areas in Indian-Priority sites for conservation.
89. (c) Leadership for Academicians Programme (LEAP) is a three weeks Flagship leadership development training programme (2 weeks domestic and one week foreign training) for second level academic functionaries in public funded higher education institutions. The implementation of LEAP Programme will be through 15 NIRF top ranked Indian Institutions.
90. (c) Open market operations is the sale and purchase of government securities and treasury bills by RBI or the central bank of the country. The objective of OMO is to regulate the money supply in the economy. It is one of the quantitative monetary policy tools. RBI carries out the OMO through commercial banks and does not directly deal with the public. When the central bank wants to infuse liquidity into the monetary system, it will buy government securities in the open market. This way it provides commercial banks with liquidity. In contrast, when it sells securities, it curbs liquidity. Thus, the central bank indirectly controls the money supply and influences short-term interest rates.
91. (b) The Reserve Bank of India was set up on April 1, 1935.
92. (a) Red Fort of Agra is an exceptionally amazing masterpiece that represents the magnificent architecture of primeval epoch. It is tagged as world heritage site by UNESCO in 1983.
93. (d) Megasthenes described the seven classes that he found in the Indian society: sophists, farmers, herdsmen, artisans and shopkeepers, overseers and the deliberators. He described the sophists to be the grandest in reputation and helping in sacrifices. The farmers, according to him, were numerous and paid taxes to the king. The herdsmen pastured sheep and cattle and did not reside in the cities or villages, and were nomads. The artisans and shopkeepers performed public duties and paid taxes. The soldiers were devoted to military events. The over-seers had the responsibility to supervise events and activities happening in the country and to report them to the king. The seventh class constituted those who discussed public affairs with the king, and as Megasthenes described, it was from this class that the rulers, treasures and admirals were selected. Megasthenes visited India in the 4th century BC and recorded slavery system to be missing in India. This hypothesis is but not believed to be correct by the Indian authors. His theory about the absence of famines is also not taken literally, since one famine happened soon after the Greeks left India. He also argued of the absence of any writing system in India during the time of his visit.
94. (b) The Harappan economy was not merely based on agriculture but also on trade. That commerce was important has been proved by numerous evidences, such as the dockyard in Lothal and the discovery of Mesopotamian inscriptions in Harappan towns. Mesopotamian literature also describes ‘Meluha’, which is believed to be the ancient name of the river Indus. Evidence of only some fruits like dates and melons are obtained and sugarcane was probably unknown to the Harappan people. Kotdiji implies ‘pre harappan’ and excavations there have revealed approximately sixteen levels of occupations, with the lowest ten of them dating from the pre-Harappan settlements.
95. (d) The prayers of the Rigvedic people constituted a desire for life, victory in battle, health and material prosperity, specifically in the form of horses and cows. On special occasions, the usual food is supposed to have been supplemented by the flesh of cattle, goats, buffalo and even sheep.
96. (d) Regarding the Qutub Minar its radius decreases after each storey it's a five storeyed structure. It has a diameter of 14.32 m at the base and about 2.75 m on the top with a height of 72.5 m. It consists

of a rectangular courtyard enclosed by cloisters, erected with the carved columns and architectural members of 27 Hindu and Jaina temples which were demolished by Qutub-Din Aibak as recorded in his inscription on the main eastern entrance.

97. (a) The correct chronological order of the rulers of Kashmir is; Avantivarman, Didda, Harsha, Jayasinghe. Utpala dynasty founded by Avantivarman followed the Kakrotas. His successor Shankaravarman (885–902 CE) led a successful military campaign against Gurjaras in Punjab. Political instability in 10th century made the royal body guards (Tantrins) very powerful in Kashmir. Under the Tantrins, civil administration collapsed and chaos reigned in Kashmir till they were defeated by Chakravarman. Queen Didda, who descended from the Hindu Shahis of Kabul on her mother's side, took over as the ruler in second half of the 10th century. After her death in 1003 CE, the throne passed to Lohara dynasty.
98. (d) Krishnadeva Raya was also known as Andhra Bhoja. He authored a book named Amuktamalyada and Jambavati Kalyanam. The group of poets named 'Ashtadiggajas' in his court.
99. (a) R Ashwin became the third-highest wicket-taker for India in Test cricket by taking his 418th wicket, surpassing fellow off-spinner Harbhajan Singh. Only Anil Kumble and Kapil Dev have more wickets than Ashwin. M. Muralitharan (800) is the highest wicket-taker in Test cricket while Shane Warne is presently at second position with 708 test wickets.
100. (c) Abhinav Bindra won India's first-ever individual Gold medal at any Olympics event. He won Gold medal in for the men's 10-meter air rifle event at 2008 Beijing Olympics. Bronze medalist in the men's freestyle 65kg wrestling event, Bajrang Punia was the flag-bearer for India. India reached its best ever performance in Olympics history by winning 7 medals including 1 Gold and 2 Silver and ranked 48th in the Tokyo Olympics.