

1. The Jury Act of 1827 was opposed by many Indians. One of the grounds for opposing it was that it denied both to the Hindus and Mohammedans the honour of a seat on the Grand Jury. Which among the following was known for his opposition to the Jury Act?

- (A) Gopal Krishna Gokhale (B) Lord Sinha
(C) Sir Syed Ahmed Khan (D) Raja Rammohan Roy

Ans : (D)

2. Plan Balkan was—

- (A) a plan devised by Mountbatten to transfer power to separate provinces or confederation of provinces, with the Bengal and Punjab Assemblies being given the options to vote for partition of their provinces
(B) The plan devised by Pethick Lawrence to give autonomy to Indian princes and provinces
(C) A plan devised by the Muslim League and the Congress to provide autonomy to Indian provinces to form confederations
(D) A plan devised by Mountbatten to allow Indian princes the freedom to either be independent or to join either India or Pakistan

Ans : (D)

3. Which one among the following prominently rose in revolt against the British in 1857?

- (A) Punjab Army (B) Madras Regiment
(C) Bengal Army (D) Awadh Regiment

Ans : (C)

4. The first Prime Minister of India in 1947 was appointed by—

- (A) the Governor-General (B) the President of India
(C) Mahatma Gandhi (D) a committee headed by Dr. Rajendra Prasad

Ans : (B)

5. Which one among the following statements is correct?

The press in democracy must—

- (A) be free and impartial
(B) be committed to the policies of the government
(C) highlight the achievement of the government without criticising its policies
(D) criticise the policies of the government

Ans : (A)

6. Telescopes are placed in space to view distant galaxies primarily to—

- (A) get closer to the observed objects
(B) avoid the absorption of light or other radiations in the atmosphere of the earth
(C) avoid light pollution from the earth's populated areas
(D) avoid steering the telescope against the earth's motion

Ans : (B)

7. SONAR is mostly used by—

- (A) Doctors (B) Engineers
(C) Astronauts (D) Navigators

Ans : (D)

8. A bucket full of water is kept in a room and it cools from 75°C to 70°C in time T₁ minutes, from 70°C to 65°C in time T₂ minutes, and from 65°C to 60°C in time T₃ minutes, then—

- (A) T₁ = T₂ = T₃ (B) T₁ < T₂ < T₃
(C) T₁ > T₂ > T₃ (D) T₁ < T₃ < T₂

Ans : (B)

9. For a simple pendulum, the graph between T² and L (where T is the time period and L is the length) is—

(A) straight line passing through origin (B) parabolic
(C) circle (D) None of the above
Ans : (A)

10. When an electrical safety fuse is rated (marked) as 16 A, it means it–
(A) will not work if current is less than 16 A
(B) has a resistance of 16 Ω
(C) will work if the temperature is more than 16°C
(D) will be blown (break) if current exceeds 16 A
Ans : (D)

11. Who among the following was recently (May 2012) elected as Chair of the Asian Development Bank's Board of Governors ?
(A) Pranab Mukherjee (B) Montek Singh Ahluwalia
(C) Duvvuri Subbarao (D) Aditya Puri
Ans : (A)

12. Consider the following statements–
1. Justice Dalveer Bhandari was recently elected as the President of International Court of Justice.
2. Justice Bhandari was a senior Judge of the Supreme Court of India.
Which of the statements given above is/are correct?
(A) 1 only (B) 2 only
(C) Both 1 and 2 (D) Neither 1 nor 2
Ans : (C)

13. Consider the following names in the field of Indian cinema–
Vidya Balan, Sournitra Chatterjee, Tapan Sinha, VK Murthy
Which of the following statements is/are correct?
1. All of them are winners of Dadasaheb Phalke Award.
2. While Tapan Sinha is a film director, VK Murthy is known for cinematography.
3. Soumitra Chatterjee was the last to get the Dadasaheb Phalke Award.
Select the correct answer using the code given below–
(A) 1, 2 and 3 (B) 2 and 3 only
(C) 3 only (D) 1 and 2 only
Ans : (B)

14. Who among the following was awarded the first Tagore Award for Cultural Harmony for the year 2012?
(A) Jasraj (B) Ravi Shankar
(C) Nikhil Banerjee (D) Bhimsen Joshi
Ans : (B)

15. Consider the following about the budget proposals for the year 2012-2013–
1. Service tax rate raised and covers all services including those in the negative list.
2. Increase in defence allocation over the previous year.
Which of the statements given above is/are correct ?
(A) 1 only (B) 2 only
(C) Both 1 and 2 (D) Neither 1 nor 2
Ans : (B)

16. Suppose, the Naxalites have kidnapped a Deputy Commissioner from Baster region in Chhattisgarh and taken him to the Abujmad area. In return for his release, the Naxals demand that all Naxal prisoners must be released from jails across India. In such a situation which among the following may be the best conflict resolution mechanism?
1. The paramilitary and local police attack the Naxalites and attempt to release the kidnapped.

2. The state forces offer huge sums of money to the Naxals as ransom and release all Naxal prisoners.

3. The state forces engaged the Naxals in a dialogue while simultaneously sending in a commando force to release the prisoners.

4. The state forces utilise local mediators to engage with the Naxals to work out a resolution process for release of the kidnapped.

Select the correct answer using the code given below—

(A) 1, 3 and 4 (B) 2 and 3

(C) 3 and 4 only (D) 4 only

Ans : (C)

17. A high level committee set up by the Ministry of Housing and Urban Poverty Alleviation conducted a survey of the slum populations in India's states. Which one among the following states was identified as being the one with highest slum population ?

(A) Andhra Pradesh (B) Madhya Pradesh

(C) Maharashtra (D) Tamil Nadu

Ans : (C)

18. The UN has recently passed a resolution against human right violation in a South Asian country. Which of the following was the country?

(A) Nepal (B) India

(C) Pakistan (D) Sri Lanka

Ans : (D)

19. Prof. Vijay Raghavan, an Indian scientist, who has been elected Fellow of Royal Society in the year 2012, is a renowned—

(A) Biotechnologist (B) Chemist

(C) Agricultural scientist (D) Missile engineer

Ans : (A)

20. 'Operation Cactus' is the name given to Indian Military intervention in—

(A) Maldives (B) Sri Lanka

(C) Bangladesh (D) Bhutan

Ans : (A)

21. Air is—

(A) always a compound (B) always a mixture

(C) a compound in pollution free zones

(D) a mixture in industrial zones

Ans : (B)

22. Consider the following figure—

Which of the following labelled points in the figure given above indicate unstable state of an object ?

(A) Point A only (B) Point B only

(C) Points A and C (D) Points B and D

Ans : (C)

23. Which one among the following is an electrochemical cell that cannot be charged?

(A) Electrolytic cell (B) Storage cell

(C) Primary cell (D) Fuel cell

Ans : (C)

24. Which one among the following is the correct order of power consumption for light of equal intensity ?

- (A) CFL tube < Fluorescent tube < Incandescent bulb < Light emitting diode
(B) Light emitting diode < CFL tube < Fluorescent tube < Incandescent bulb
(C) CFL tube < Fluorescent tube < Light emitting diode < Incandescent bulb
(D) Incandescent bulb < Light emitting diode < Fluorescent tube < CFL tube
Ans : (B)

25. One feels heavier in a lift when the lift–
(A) is going down steadily (B) just begins to go up
(C) is moving up steadily (D) descends freely
Ans : (B)

26. A swinging pendulum has its maximum acceleration at–
(A) the bottom of the swing (B) the two extremities of the swing
(C) every point on the swing (D) no particular portion of the pendulum
Ans : (B)

27. Which one among the following statements about thermal conductivity is correct?
(A) Steel > Wood > Water (B) Steel > Water > Wood
(C) Water > Steel > Wood (D) Water > Wood > Steel
Ans : (B)

28. The process of nuclear fusion in the sun requires–
(A) very high temperature and very high pressure (B) low temperature and high pressure
(C) high temperature and low pressure (D) very high temperature and no pressure
Ans : (A)

29. Which one among the following is the true representation of (i) variable DC potential, (ii) rheostat and (iii) AC ammeter respectively ?
Ans : (C)

30. In India, distribution of electricity for domestic purpose is done in the form of–
(A) 220 V; 50 Hz (B) 110 V; 60 Hz
(C) 220 V; 60 Hz (D) 110 V; 50 Hz
Ans : (A)

31. The earth's magnetic field is approximately–
(A) 1 Tesla (B) 2 Gauss
(C) 104 Tesla (D) 1 Gauss
Ans : (D)

32. Yellow colour light is used as fog light because yellow colour–
(A) light is most scattered by fog
(B) has the longest wavelength among all colours
(C) has the longest wavelength among all colours except red and orange but the red colour is already used for brake light and stop light whereas orange colour is avoided due to its similarity with red
(D) has the shortest wavelength among all colours not already reserved for other purpose
Ans : (C)

33. A hot object loses heat to its surroundings in the form of heat radiation. The rate of loss of heat depends on the–
(A) temperature of the object (B) temperature of the surroundings
(C) temperature difference between the object and its surroundings
(D) average temperature of the object and its surroundings
Ans : (D)

34. The mirror used for the headlight of a car is—
(A) spherical concave (B) plane
(C) cylindrical (D) parabolic concave
Ans : (D)

35. An iron ball and a wooden ball of the same radius are released from a height 'H' in vacuum.
The time taken to reach the ground will be—
(A) more for the iron ball (B) more for the wooden ball
(C) equal for both (D) in the ratio of their weights
Ans : (C)

Directions (Qs. 36 and 37) : These items consist of two statements, statement I and statement II.
You are to examine these two statements carefully and select the answers to these items using the
code given below—
Code:

- (A) Both the statements are individually true and statement II is the correct explanation of statement I
- (B) Both the statements are individually true but statement II is not the correct explanation of statement I
- (C) Statement I is true but statement II is false
- (D) Statement I is false but statement II is true

36. Statement I :
Red blood cells burst when placed in water.
Statement II :
Due to the phenomenon of osmosis water enters into red blood cells.
Ans : (A)

37. Statement I :
Indigo formed the basis of a flourishing sector of commercial agriculture by the beginning of the
19th century.
Statement II :
The Indigo Commission was set up to enquire into the grievances of the indigo cultivators in 1860.
Ans : (B)

38. Which one among the following waterborne diseases is not caused by a bacteria?
(A) Cholera (B) Typhoid
(C) Bacillary dysentery (D) Hepatitis A
Ans : (D)

39. The process of conventional earlobe piercing does not lead to bleeding. This is because the—
(A) heart does not supply blood to earlobes
(B) cartilage found in earlobe has lesser blood supply unlike other body parts
(C) earlobes consist of dead non dividing tissue
(D) needle used for ear piercing is sterilised
Ans : (B)

40. After entering the human body through mosquito bite, the malarial parasite (plasmodium)
shows initial multiplication in—
(A) Spinal chord (B) Blood
(C) Liver (D) Spleen
Ans : (C)

41. Which one among the following parts of blood carries out the function of body defence ?
(A) Platelets (B) White Blood Cells

(C) Haemoglobin (D) Red Blood Cells

Ans : (B)

42. Which one among the following is not included in the major clinical sign as a case definition of AIDS in children andlt; 12 years of age?

- (A) Persistent cough for more than 1 month (B) Loss of weight
(C) Chronic diarrhoea (D) Prolonged fever

Ans : (A)

43. Polio disease is caused by–

- (A) Bacteria (B) Fungi
(C) Virus (D) Worm

Ans : (C)

44. Which one among the following is the hardest part of our body?

- (A) Skull bones of head (B) Thumb nails
(C) Enamel of teeth (D) Spinal vertebra

Ans : (C)

45. Which of the following group is present in animal cells?

- (A) Mitochondria, Cell membrane, Cell wall, Cytoplasm
(B) Chloroplasts, Cytoplasm, Vacuole, Nucleus
(C) Nucleus, Cell membrane, Mitochondria, Cytoplasm
(D) Vacuole, Cell membrane, Nucleus, Mitochondria

Ans : (C)

46. Which one among the following statements is correct?

In digestive system of living organisms–

- (A) glucose is broken down into glycerol
(B) glucose is converted into glycogen
(C) glucose is broken down into carbon dioxide and water
(D) proteins are broken down into amino acids

Ans : (D)

47. Which one among the following rocks does not belong to the same group?

- (A) Shale (B) Limestone
(C) Slate (D) Sandstone

Ans : (C)

48. Match List I with List II and select the correct answer using the code given below the Lists–

List I (World Heritage Site)

A. Brihadisvara Temple B. Ellora Caves C. Hampi D. Mahabodhi Temple

List II (State)

1. Maharashtra 2. Karnataka 3. Tamil Nadu 4. Bihar

Code:

A B C D

(A) 4 1 2 3

(B) 4 2 1 3

(C) 3 2 1 4

(D) 3 1 2 4

Ans : (D)

49. Match List I with List II and select the correct answer using the code given below the Lists–

List I (Himalayan Peak)

A. K2 B. Nanda Devi C. Tara Pahar D. Kanchenjunga

List II (State)

1. Uttarakhand 2. Jammu and Kashmir 3. Sikkim 3. Himachal Pradesh

Code:

A B C D

(A) 2 4 1 3

(B) 2 1 4 3

(C) 3 1 4 2

(D) 3 4 1 2

Ans : (B)

50. The Deccan Trap Formation was caused by–

(A) Shield eruption (B) Composite eruption

(C) Caldera eruption (D) Flood basalt eruption

Ans : (D)

51. Match List I with List II and select the correct answer using the code given below the Lists–

List I (Magnet)

A. Artificial magnet B. Permanent magnet

C. Temporary magnet D. Earth as a magnet

List II (Property)

1. Long lived 2. Lasts for infinitely long period

3. Short lived 4. Induced magnet

Code:

A B C D

(A) 3 1 4 2

(B) 3 4 1 2

(C) 2 1 4 3

(D) 2 4 1 3

Ans : (A)

52. A body weighs 5 kg on equator. At the poles it is likely to weigh–

(A) 5 kg (B) less than 5 kg but not zero

(C) 0 kg (D) more than 5 kg

Ans : (D)

53. The polarity of an unmarked horse shoe magnet can be determined by using–

(A) a charged glass rod (B) a magnetic compass

(C) an electroscope (D) another unmarked bar magnet

Ans : (B)

54. A staircase has 5 steps each 10 cm high and 10 cm wide. What is the minimum horizontal velocity to be given to the ball so that it hits directly the lowest plane from the top of the staircase?

(g = 10 ms²)

(A) 2 ms⁻¹ (B) 1 ms⁻¹

(C) $\sqrt{2}$ ms⁻¹ (D) $\frac{1}{2}$ ms⁻¹

Ans : (B)

55. Consider the following statements–

1. If a piece of bar magnet is broken into two equally long pieces, the pieces will not lose the magnetic properties.

2. Magnetic properties of a substance lie in the atomic level.

Which of the statements given above is/are correct ?

(A) 1 only (B) 2 only

(C) Both 1 and 2 (D) Neither 1 nor 2

Ans : (C)

56. Consider the following circuit–

The current flowing through each of the resistors connected in the above circuit is—

- (A) 2A (B) 1A
(C) 9A (D) 4A

Ans : (A)

57. Consider the following statements—

The state government shall appoint a Finance Commission to review the financial position of the Panchayats and to make recommendations as to—

1. the distribution between the state and Panchayats of the net proceeds of taxes, tolls and fees leviable by the states.

2. the determination of the taxes, duties, tolls and fees which may be assigned to the Panchayats.

3. the principles that will determine grant-in-aid to the Panchayats.

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

Ans : (D)

58. Which one among the following monuments was earlier known as 'All India War Memorial' ?

- (A) Gateway of India (B) India Gate
(C) Charminar (D) Lal Quila

Ans : (B)

59. Which of the following statements regarding the Preamble of the Constitution of India is/are correct?

1. The Preamble is an integral part of the Constitution.

2. The words 'secular' and 'socialist' have been a part of the Preamble since its inception.

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

Ans : (A)

60. Normally the Parliament can legislate on the subjects enumerated in—

- (A) the Union List (B) the Concurrent List
(C) the State List (D) the Union as well as the Concurrent List

Ans : (D)

61. Which one among the following statements relating to the Home Rule movement is not correct ?

(A) The movement, instead of going forward after its great advance in 1917, gradually declined in 1918

(B) Annie Besant, 'the leader of the movement did not oppose the entry of extremists

(C) The movement became weaker and weaker because of the continuous differences of opinion among the nationalist leaders

(D) The movement was again revived by Mahatma Gandhi

Ans : (D)

62. Why did Gandhiji go to Champaran ?

(A) To launch a Saryagraha movement (B) To launch a non-cooperation movement

(C) To enquire into the grievances of the indigo cultivators (D) To fight against the zamindars

Ans : (C)

63. Which one among the following was the fundamental cause of the first Karnataka War between the British and the French ?

(A) Participation of the English and the French in the native politics of Karnataka

(B) The ambition of Dupleix to drive out the English from the South

(C) The trade rivalry between the English and the French

(D) The war of Austrian succession because of which Britain and France became each other's enemy in every part of the world
Ans : (D)

64. Which one among the following cities was the best producer of silk cloth under Gupta reign?
(A) Pataliputra (B) Murshidabad
(C) Ghazipur (D) Varanasi
Ans : (B)

65. Which one among the following is not correct about the cave paintings at Ajanta ?
(A) Scenes have no dividing frame and blend into each other
(B) Scenes are both religious and secular in nature
(C) The influence of the Gandhara art is seen
(D) Scenes mostly depict tales from Jatakas
Ans : (C)

66. Vice-President of India is elected by an electoral college consisting of—
(A) members of both Houses of Parliament
(B) members of Rajya Sabha only
(C) elected members of both Houses of Parliament
(D) elected members of Lok Sabha only
Ans : (A)

67. Who among the following has a right to speak and otherwise take part in proceedings of either House of Parliament and to be a member of any parliamentary committee but is not entitled to vote?
(A) Chairman, Finance Commission (B) The Attorney. General
(C) The Comptroller and Auditor-General (D) The Chief Election Commissioner
Ans : (B)

68. Which one among the following countries is not touched by the Stilwell Road constructed during the World War II ?
(A) Myanmar (B) Thailand
(C) China (D) India
Ans : (B)

69. Which one among the following wars ended by the Treaty of Salbai ?
(A) First Maratha War (B) Second Maratha War
(C) Third Maratha War (D) Fourth Mysore War
Ans : (A)

70. Navroze is a festival celebrated in India by the—
(A) Hindus (B) Muslims
(C) Parsis (D) Christians
Ans : (C)

71. Match List I with List II and select the correct answer using the code given below the Lists—
List I (River)
A. Volga B. Dnieper C. Rhine D. Don
List II (Sea)
1. Sea of Azov 2. Black Sea 3. Caspian Sea 4. Mediterranean Sea
Code:
A B C D
(A) 1 4 2 3
(B) 1 2 4 3
(C) 3 2 4 1

(D) 3 4 2 1

Ans : (C)

72. Which one among the following transitions is associated with the largest change in energy in hydrogen atom ?

(A) $n = 5$ to $n = 3$ (B) $n = 2$ to $n = 1$

(C) $n = 3$ to $n = 2$ (D) $n = 4$ to $n = 2$

Ans : (B)

73. Match List I with List II and select the correct answer using the code given below the Lists–
List I (Compound)

A. Cellulose nitrate B. Potassium sulphate C. Potassium salt of fatty acids D. Calcium oxide

List II (Use)

1. Soft soap 2. Gun powder 3. Fertiliser 4. Glass

Code:

A B C D

(A) 2 3 1 4

(B) 2 1 3 4

(C) 4 1 3 2

(D) 4 3 1 4

Ans : (A)

74. Which one among the following does not have an allotrope ?

(A) Oxygen (B) Sulphur

(C) Nitrogen (D) Carbon

Ans : (C)

75. Match List I with List II and select the correct answer using the code given below the Lists–
List I (Scientist)

A. Goldstein B. Chadwick C. J J Thomson D. John Dalton

List II (Discovery)

1. Atomic theory 2. Proton 3. Neutron 4. Electron

Code:

A B C D

(A) 2 3 4 1

(B) 2 4 3 1

(C) 1 4 3 2

(D) 1 3 4 2

Ans : (A)

76. Consider the following statements–

1. Diamond is hard and graphite is soft.

2. Diamond is soft and graphite is hard.

3. Diamond is a bad conductor but graphite is a good conductor.

4. Diamond is a good conductor but graphite is a bad conductor.

Which of the statements given above is/are correct?

(A) 1 and 3 (B) 1 only

(C) 2 and 3 (D) 1 and 4

Ans : (A)

77. The most important raw materials used in the manufacture of cement are–

(A) Potassium nitrate, charcoal and sulphur

(B) Limestone, clay and gypsum

(C) Transition metal oxides, sodium hydroxide or potassium hydroxide

(D) Limestone, sodium carbonate and silica

Ans : (B)

78. Which one among the following equations is correctly balanced ?

- (A) $\text{NaOH} + \text{Al} + \text{H}_2\text{O} \rightarrow 2\text{H}_2 + \text{NaAlO}_2$
(B) $2\text{NaOH} + 2\text{Al} + 2\text{H}_2\text{O} \rightarrow 3\text{H}_2 + 2\text{NaAlO}_2$
(C) $2\text{NaOH} + 2\text{Al} + 3\text{H}_2\text{O} \rightarrow 4\text{H}_2 + 2\text{NaAlO}_2$
(D) $2\text{NaOH} + 2\text{Al} + \text{H}_2\text{O} \rightarrow \text{H}_2 + 2\text{NaAlO}_2$

Ans : (B)

79. Three elements Na, S and O combine to form a compound Na_2SO_3 . What is the valency of S in this compound?

- (A) 2+ (B) 4+
(C) 6+ (D) 8+

Ans : (B)

80. Which one among the following is the equivalent weight of sulphuric acid?

(Atomic weight: H = 1, S = 32, O=16)

- (A) 98 (B) 60
(C) 100 (D) 49

Ans : (D)

81. Deionised water is produced by–

- (A) Calgon process (B) Ion-exchange resin process
(C) Clark's process (D) Permutit process

Ans : (C)

82. Which one among the following is a double salt ?

- (A) $\text{K}_4[\text{Fe}(\text{CN})_6]$ (B) $\text{K}_2\text{SO}_4 \cdot \text{Al}_2(\text{SO}_4)_3 \cdot 24\text{H}_2\text{O}$
(C) $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ (D) NaCl

Ans : (B)

83. Which one among the following is the correct order of strength of acids?

- (A) $\text{H}_2\text{SO}_4 > \text{H}_3\text{PO}_3 > \text{CH}_3\text{COOH}$
(B) $\text{H}_3\text{PO}_3 > \text{H}_2\text{SO}_4 > \text{CH}_3\text{COOH}$
(C) $\text{CH}_3\text{COOH} > \text{H}_3\text{PO}_3 > \text{H}_2\text{SO}_4$
(D) $\text{CH}_3\text{COOH} > \text{H}_2\text{SO}_4 > \text{H}_3\text{PO}_3$

Ans : (A)

84. Given below is an approximate composition of a substance–

CaO 60-70%

SiO₂ 20-25%

Al₂O₃ 5-10%

Fe₂O₃ 2-3%

The substance is

- (A) Plaster of Paris (B) Cement
(C) Marble Stone (D) Quartz

Ans : (B)

85. In KMnO_4 molecule, the oxidation states of the elements Potassium (K), Manganese (Mn) and Oxygen (O) are respectively–

- (A) + 1, + 5, – 2 (B) + 1, + 7, – 2
(C) 0, 0, 0 (D) + 1, + 7, 0

Ans : (B)

86. Which of the following statements is/are correct?

1. Inter-Tropical Convergence Zone is a low pressure belt which forms an important zone of contact over Northern India and Pakistan.

2. Inter-Tropical Convergence Zone invites inflow of winds from different directions.

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

Ans : (B)

87. Consider the following characteristics of industries–

1. They can be located in a wide variety of places.

2. They are not dependent on any specific raw material.

3. They are generally not polluting industries.

4. The most important factor in their location is accessibility.

Which one of the following types of industries has the above characteristics?

(A) Market oriented (B) Foot loose

(C) Sunset (D) Sunrise

Ans : (B)

88. Consider the following statements regarding El Nino effect on Indian Monsoon–

1. The surface temperature goes up in the Southern Pacific Ocean and there is deficient rainfall in India.

2. The Walker Circulation shifts eastward from its normal position and reduces monsoon rainfall in India.

Which of the statements given above is/are correct?

(A) 1 only (B) 2 only

(C) Both 1 and 2 (D) Neither 1 nor 2

Ans : (C)

89. In which among the following terrains the bore wells and canals can be dug easily ?

(A) Gneiss, granites and basaltic terrain of Peninsular India

(B) Rolling and dotted hilly terrain of North-East India

(C) Soft alluvium of the Northern Plains

(D) Confined aquifer below the normal water table

Ans : (C)

90. Wide range and variability in rainfall, torrential in character, reversal of winds and uncertain arrival are the characteristics of–

(A) Westerlies (B) Trade winds

(C) Monsoon (D) Anti trade winds

Ans : (C)

91. Which of the following statements is/are correct?

1. The local time of Itanagar (Arunachal Pradesh) is about two hours ahead than Dwarka (Gujarat).

2. The local time at Chennai (Tamil Nadu) and Lucknow (Uttar Pradesh) is almost same.

3. The local time of Mumbai (Maharashtra) is one hour ahead than Kolkata (West Bengal).

Select the correct answer using the code given below–

(A) 1 and 2 only (B) 2 only

(C) 1 and 3 only (D) 1, 2 and 3

Ans : (A)

92. Mackerel sky is associated with cloud type–

(A) Cumulo-nimbus (B) Strata-cumulus

(C) Alto-cumulus (D) Cirro-cumulus

Ans : (c/d)

93. The average surface temperature of the earth's surface is–

(A) 10°C (B) 15°C
(C) 8°C (D) 5°C
Ans : (B)

94. Match List I with List II and select the correct answer using the code given below the Lists–

List I (Atomic power station)

A. Narora B. Rana Pratap Sagar C. Tarapur D. Kalpakkam

List II (Position in map)

Code:

A B C D

(A) 2 4 3 1

(B) 1 3 4 2

(C) 2 3 4 1

(D) 1 4 3 2

Ans : (C)

95. Ferrel's law is related to deflection of–

(A) cold air-mass (B) hot air-mass

(C) monsoon air-mass (D) trade wind and ocean currents

Ans : (D)

96. The grassland region of South Africa is known as–

(A) Selvas (B) Downs

(C) Veldt (D) Llanos

Ans : (C)

97. In India, the Tropical Savanna (AW) type of climate prevails largely in–

(A) Rajasthan desert region (B) Peninsular plateau region

(C) Jammu and Kashmir region (D) North-Eastern region

Ans : (B)

98. The Nokrek biosphere reserve is located in–

(A) Arunachal Pradesh (B) Assam

(C) Sikkim (D) Meghalaya

Ans : (D)

99. Match List I with List II and select the correct answer using the code given below the Lists–

List I (Place)

A. Jabalpur B. Bengaluru C. Modinagar D. Ballarpur

List II (Industry)

1. Petro-chemical 2. Information Technology 3. Paper 4. Automobile

Code:

A B C D

(A) 4 1 2 3

(B) 3 1 2 4

(C) 3 2 1 4

(D) 4 2 1 3

Ans : (D)

100. Where is Aghil Pass located?

(A) Nepal Himalayas (B) Sikkim Himalayas

(C) Eastern Himalayas (D) Trans Himalayas

Ans : (D)