

Time : 1hr 40 mins

Total Marks : 400

Important Instructions :

1. This Test contains 100 items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case, you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
2. You have to mark all your responses **ONLY** on the separate Answer Sheet provided.
3. All items carry equal marks.
4. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions.
5. Penalty for wrong answers:
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, one-third of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

1. Which one of the following statements is correct?
 - (a) Any energy transfer that does not involve temperature difference in some way is not heat.
 - (b) Any energy transfer always requires a temperature difference.
 - (c) On heating the length and volume of an object remain exactly the same.
 - (d) Whenever there is a temperature difference, heat is the only way of energy transfer.
2. If T is the time period of an oscillating pendulum, which one of the following statements is NOT correct?
 - (a) The motion repeats after time T only once.
 - (b) T is the least time after which motion repeats itself.
 - (c) The motion repeats itself after nT , where n is a positive integer.
 - (d) T remains the same only for small angular displacements.
3. If an object moves with constant velocity then which one of the following statements is NOT correct?
 - (a) Its motion is along a straight line.
 - (b) Its speed changes with time.
 - (c) Its acceleration is zero.
 - (d) Its displacement increases linearly with time.
4. An object is moving with uniform acceleration a . Its initial velocity is u and after time t its velocity is v . The equation of its motion is $v = u + at$. The velocity (along y -axis) time (along x -axis) graph shall be a straight line
 - (a) passing through origin
 - (b) with x -intercept u
 - (c) with y -intercept u
 - (d) with slope u
5. What is the net force experienced by a bar magnet placed in a uniform magnetic field?
 - (a) Zero
 - (b) Depends upon length of the magnet
 - (c) Never zero
 - (d) Depends upon temperature
6. Which one of the following has maximum inertia?
 - (a) An atom
 - (b) A molecule
 - (c) A one-rupee coin
 - (d) A cricket ball
7. Which one of the following is the value of 1 kWh of energy converted into joules?
 - (a) 1.8×10^6 J
 - (b) 3.6×10^6 J
 - (c) 6.0×10^6 J
 - (d) 7.2×10^6 J

8. Which one of the following statements about gravitational force is NOT correct?
(a) It is experienced by all bodies in the universe.
(b) It is a dominant force between celestial bodies.
(c) It is a negligible force for atoms.
(d) It is same for all pairs of bodies in our universe.
9. Whether an object will float or sink in a liquid, depends on
(a) mass of the object only.
(b) mass of the object and density of liquid only.
(c) difference in the densities of the object and liquid.
(d) mass and shape of the object only.
10. Which one of the following devices is non-ohmic?
(a) Conducting copper coil
(b) Electric heating coil
(c) Semi conductor diode
(d) Rheostat
11. Which one of the following is the natural phenomenon based on which a simple periscope works?
(a) Reflection of light
(b) Refraction of light
(c) Dispersion of light
(d) Total internal reflection of light
12. Which one of the following frequency ranges is sensitive to human ears?
(a) 0–200 Hz
(b) 20–20,000 Hz
(c) 200–20,000 Hz only
(d) 2,000–20,000 Hz only
13. The accidental touch of Nettle leaves creates a burning sensation, which is due to inject of
(a) Hydrochloric acid (b) Methanoic acid
(c) Citric acid (d) Sulphuric acid
14. Which of the following properties is true for a tooth paste?
(a) It is acidic.
(b) It is neutral.
(c) It is basic.
(d) It is made up of Calcium phosphate, the material of tooth enamel.
15. Which one of the following gives the highest amount of hydrogen ions (H^+)?
(a) Sodium hydroxide solution
(b) Milk of magnesia
(c) Lemon juice
(d) Gastric juice
16. Brine is an aqueous solution of
(a) NaCl (b) NaOH
(c) $NaHCO_3$ (d) Na_2CO_3
17. Which one of the following is the chemical formula of Washing Soda?
(a) $NaHCO_3$ (b) $Na_2CO_3 \cdot 10H_2O$
(c) $Na_2CO_3 \cdot 5H_2O$ (d) NaOH
18. Which one of the following is NOT true for bleaching powder?
(a) It is used as a reducing agent in chemical industries.
(b) It is used for bleaching wood pulp in paper factories.
(c) It is used for disinfecting drinking water.
(d) It is used for bleaching linen in textile industry.
19. AIDS is caused by a virus whose genetic material is
(a) single stranded circular DNA
(b) double stranded DNA
(c) single stranded RNA
(d) double stranded RNA
20. Which one of the following is an organelle that is NOT found in prokaryotic cells
(a) Cell wall
(b) Mitochondria
(c) Plasma membrane
(d) Ribosome
21. Which one of the following parts of body does NOT take part in the process of breathing?
(a) Bronchi (b) Bowman's capsule
(c) Diaphragm (d) Trachea
22. Which one of the following statements about classification of plants is correct?
(a) Thallophytes have well differentiated body design.
(b) *Funaria* is a fungus.
(c) All Pteridophytes are Phanerogams.
(d) Vascular system is not found among Bryophytes.

23. Which one of the following is the correct sequence of levels of hierarchy of classification of organisms from higher to lower?
 (a) Phylum – Class – Order – Family – Genus
 (b) Phylum – Class – Family – Order – Genus
 (c) Family – Order – Class – Species – Genus
 (d) Class – Family – Order – Species – Genus
24. Which one of the following statements about meristematic tissues in plants is correct?
 (a) These are dead tissues and form wood.
 (b) They provide flexibility to plant due to their thickened walls.
 (c) These are present in the bark of a tree only.
 (d) Growth occurs in plants due to division of cells of these tissues.
25. Which one of the following Union Territories has the highest female literacy rate?
 (a) Chandigarh
 (b) Lakshadweep
 (c) Andaman and Nicobar Islands
 (d) Puducherry
26. Consider the following statements about Roaring forties:
 (1) They are strong Westerly winds found in the oceans of Southern Hemisphere.
 (2) The strong east to west air currents are caused by the combination of air being displaced from the Equator towards the South Pole and the earth's rotation and abundance of landmasses to serve as wind breaks.
- Which of the statements given above is/are correct?
 (a) 1 only (b) 2 only
 (c) Both 1 and 2 (d) Neither 1 nor 2
27. Consider the following statements:
 (1) The doldrums is a low pressure area around Equator where the prevailing winds are calm.
 (2) Chinook is a hot and dry wind that blows in winter and therefore raises the temperature in a short 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
28. Which one of the following is the driest desert of the world?
 (a) Atacama (b) Gobi
 (c) Sahara (d) Kalahari
29. Which of the following statements about latent heat for a given substance is/are correct?
 (1) It is fixed at a given temperature.
 (2) It depends upon the temperature and volume.
 (3) It is independent of temperature and volume.
 (4) It depends on the temperature but independent of volume.
- Select the correct answer using the code given below:
 (a) 2 (b) 1 and 3
 (c) 4 only (d) 1 and 4
30. Which one of the following statements about the mass of a body is correct?
 (a) It changes from one place to another.
 (b) It is same everywhere.
 (c) It depends on its shape.
 (d) It does not depend on its temperature.
31. A ball balanced on a vertical rod is an example of
 (a) stable equilibrium
 (b) unstable equilibrium
 (c) neutral equilibrium
 (d) perfect equilibrium
32. Which of the following statements about a fluid at rest in a cup is/are correct?
 (1) Pressure is same at all the points in the fluid.
 (2) Pressure is exerted on the walls.
 (3) Pressure exists everywhere in the fluid.
- Select the correct answer using the code given below:
 (a) 1 and 2 only (b) 2 and 3 only
 (c) 1 only (d) 1, 2 and 3
33. Which one of the following devices is used to measure atmospheric pressure?
 (a) Ammeter (b) Barometer
 (c) Potentiometer (d) Lactometer
34. Which one of the following is the number of water molecules that share with two formula unit CaSO_4 in plaster of Paris?
 (a) One (b) Two
 (c) Five (d) Ten

35. How is carbon black obtained?
 (a) By heating wood at high temperature in absence of air
 (b) By heating coal at high temperature in absence of air
 (c) By burning hydrocarbons in a limited supply of air
 (d) By heating coal at high temperature in presence of air
36. Which one of the following properties is NOT true for graphite?
 (a) Hybridisation of each carbon atom is sp^3 .
 (b) Hybridisation of each carbon atom is sp^2
 (c) Electrons are delocalized over the whole sheet of atoms
 (d) Each layer is composed of hexagonal rings.
37. Which one of the following is the purest form of Carbon?
 (a) Charcoal (b) Coke
 (c) Fullerene (d) Carbon black
38. The Poisonous nature of Carbon monoxide (CO) is due to its
 (a) insolubility in water
 (b) ability to form a complex with haemoglobin
 (c) ability to reduce some metal oxides
 (d) property of having one sigma bond
39. Which one of the following elements is needed in the human body to transfer electrical signals by nerve cells?
 (a) Lithium (b) Sodium
 (c) Rubidium (d) Caesium
40. Who among the following first discovered cell?
 (a) Robert Brown (b) Robert Hooke
 (c) Leeuwenhoek (d) Rudolf Virchow
41. Which one of the following group of organisms forms a food chain?
 (a) Grass, human and fish
 (b) Grass, goat and human
 (c) Tree, tree cutter and tiger
 (d) Goat, cow and human
42. Which one of the following types of tissues will have contractile proteins?
 (a) Nervous tissue (b) Muscle tissue
 (c) Bone tissue (d) Blood tissue
43. If by an unknown accident the acid secreting cells of the stomach wall of an individual are damaged, digestion of which one of the following biomolecule will be affected to a greater extent?
 (a) Protein only
 (b) Lipid
 (c) Carbohydrate only
 (d) Protein and Carbohydrate
44. In which one of the following places, Headquarters of a Railway Zone is located?
 (a) Kanpur (b) Lucknow
 (c) Hajipur (d) New Jalpaiguri
45. Which of the following statements about Indian Academy of Highway Engineers is/are correct?
 (1) It is registered society.
 (2) It is a collaborative body of both Central Government and State Governments.
 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
46. Which one of the following is NOT a tributary of Indus River?
 (a) Beas (b) Ravi
 (c) Chenab (d) Tawi
47. Which one among the following is the largest tiger reserve of India in terms of area of the core/critical tiger habitat?
 (a) Manas
 (b) Pakke
 (c) Nagarjunasagar Srisailem
 (d) Periyar
48. Which one of the following is NOT a coastal depositional feature?
 (a) Tombolo (b) Sand bar
 (c) Stack (d) Spit
49. Which of the following is/are coastal erosional feature(s)
 (1) Notch (2) Sea Arch
 (3) Cliff (4) Hook
 Select the correct answer using the code given below:
 (a) 1, 2 and 3 (b) 2, 3 and 4
 (c) 2 and 3 only (d) 1 only
50. Chemical weathering of rocks is much greater in a place with
 (a) cold and dry climate
 (b) hot and humid climate
 (c) hot and dry climate
 (d) cold and humid climate

51. Which of the following statements about specific heat of a body is/are correct?
 (1) It depends upon mass and shape of the body.
 (2) It is independent of mass and shape of the body.
 (3) It depends only upon the temperature of the body.
 Select the correct answer using the code given below:
 (a) 1 only (b) 2 and 3
 (c) 1 and 3 (d) 2 only
52. Which one of the following is an example of the force of gravity of the Earth acting on a vibrating pendulum bob?
 (a) Applied force (b) Frictional force
 (c) Restoring force (d) Virtual force
53. Which one of the following statements about the refractive index of a material medium with respect to air is correct?
 (a) It can be either positive or negative.
 (b) It can have zero value.
 (c) It is unity for all materials.
 (d) It is always greater than one.
54. Which one of the following statements about magnetic field lines is NOT correct?
 (a) They can emanate from a point.
 (b) They do not cross each other.
 (c) Field lines between two poles cannot be precisely straight lines at the ends.
 (d) There are no field lines within a bar magnet.
55. Two convex lenses with power 2 dioptr are kept in contact with each other. The focal length of the combined lens system is
 (a) 0.10 m (b) 2 m
 (c) 4 m (d) 0.25 m
56. Which one of the following alkali metals has lowest melting point?
 (a) Sodium (b) Potassium
 (c) Rubidium (d) Caesium
57. Which one of the following metals is alloyed with sodium to transfer heat in a nuclear reactor?
 (a) Potassium (b) Calcium
 (c) Magnesium (d) Strontium
58. Which one of the following metals is used in the filaments of photo-electric cells that convert light energy into electric energy?
 (a) Tungsten (b) Copper
 (c) Rubidium (d) Aluminium
59. Which of the following statements about Ring of Fire is/are correct?
 (1) It is zone of convergence plate boundaries.
 (2) It is an active seismic and volcanic zone.
 (3) It is associated with deep trench.
 Select the correct answer using the code given below:
 (a) 1 and 2 only (b) 2 and 3 only
 (c) 1 only (d) 1, 2 and 3
60. Which one of the following Himalayan vegetation species is found between the altitudes of 1800 to 2600 metres?
 (a) Saal (b) Chir
 (c) Spruce (d) Deodar
61. Which one of the following rivers is NOT a tributary of river Cauvery?
 (a) Hemavati (b) Arkavati
 (c) Indravati (d) Amravati
62. Which of the following conditions is/are essential for tea cultivation?
 (1) Tropical and sub-tropical climate
 (2) Heavy rainfall ranging from 150 cm to 250 cm
 (3) Soil should contain good amount of lime
 Select the correct answer using the code given below:
 (a) 1, 2 and 3 (b) 1 and 2 only
 (c) 2 and 3 only (d) 1 only
63. Bharatmala Project is related to
 (a) Improving road connectivity
 (b) Interlinking ports and railways
 (c) Interlinking of rivers
 (d) Interlinking major cities with gas pipelines
64. Which one of the following is a local wind that blows out from Siberia?
 (a) Bora (b) Purga
 (c) Mistral (d) Blizzard
65. Which one of the following centres is NOT known for iron and steel industry?
 (a) Bhadravati (b) Salem
 (c) Vishakhapatnam (d) Renukoot
66. Which of the following are essential prerequisites for establishment of a thermal power station?
 (1) Availability of fossil fuels
 (2) Proximity to a river, lake or sea

- (3) Good transport network
(4) Proximity to an urban centre
Select the correct answer using the code given below:
- (a) 1, 2 and 3 (b) 2 and 4
(c) 2 and 3 only (d) 1 and 3 only
67. Which of the following statements about 'Aadi Mahotsav' held recently in New Delhi is/are correct?
- (1) The theme of the festival was 'A Celebration of the Spirit of Tribal Culture, Cuisine and Commerce'
(2) The festival was organized by the Ministry of Tourism, Government of 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
68. Light year is a unit for measurement of
- (a) age of universe
(b) very small time intervals
(c) very high temperature
(d) very large distance
69. Which of the following statements about electromagnetic waves, sound waves and water waves is/are correct?
- (1) They exhibit reflection.
(2) They carry energy.
(3) They exert pressure.
(4) They can travel in vacuum.
- Select the correct answer using the code given below:
- (a) 1, 2 and 3 (b) 2 and 4
(c) 1 and 3 only (d) 1 only
70. Thermal capacity of a body depends on the
- (a) mass of the body only
(b) mass and shape of the body only
(c) density of the body
(d) mass, shape and temperature of the body
71. Who among the following first used the term 'Industrial Revolution' in English to describe the changes that occurred in British industrial development between 1760 and 1820?
- (a) Karl Marx
(b) Georges Michelet
(c) Arrnold Toynbee
(d) Friedrich Engels
72. Which one of the following statements about the Olympe de Gouges (1748-1793) is correct?
- (a) She declared that although citizens should have equal rights, they are not entitled to the same honours by the State
(b) She was a supporter of the Jacobin government
(c) She was jailed for treason by the National assembly
(d) She declared that the nation is the union of woman and man
73. Who among the following built a model steam engine in 1698 called "Miner's Friend" to drain mines?
- (a) Thomas Savery
(b) Thomas Newcomen
(c) James Watt
(d) Richard Arkwright
74. Which one of the following statements about Renaissance Humanist culture is NOT true?
- (a) It slackened the control of religion over human life
(b) It believed that human nature was many-sided
(c) It was concerned with good manners
(d) It criticized material wealth, power and glory
75. Who gifted the *Badshah Nama* to King George in 1799?
- (a) Abul Fazl
(b) Abdul Hamid Lahori
(c) Nawab of Awadh
(d) William Jones
76. What is the name of the award given to meritorious men in the Mughal Court in the form of a robe of honour that was once worn by the Emperor?
- (a) Sarapa
(b) Patka
(c) Padma murassa
(d) Khilat
77. Who among the following social reformer started a society for the encouragement of widow remarriage in 1866 in Maharashtra?
- (a) Bal Gangadhar Tilak
(b) Jyotirao Phule
(c) Vishnusashtri Pandit
(d) Pandita Ramabai

78. Name the first major voluntary association representing primarily Indian landlord interests that was set up in Calcutta in 1851 ?
- British Indian Association
 - Landholder's Society
 - Madras Native Association
 - Bombay Association
79. Who among the following introduced the Permanent Settlement of Bengal in 1793 ?
- Lord Cornwallis
 - Lord Ripon
 - Robert Clive
 - John Adam
80. Name the rebel who fought against the British in the battle of Chinhat in the course of the 1857 Revolt?
- Ahmadullah Shah
 - Shah Mal
 - Mangal Pandey
 - Kunwar Singh
81. Who among the following are the two civil servants who assisted the Constituent Assembly in framing the Constitution of India ?
- B. N. Rau and K. M. Munshi
 - S. N. Mukherjee and Alladi Krishnaswamy Aiyar
 - B. N. Rau and S. N. Mukherjee
 - K. M. Munshi and Alladi Krishnaswamy Aiyar
82. Which member of the Constituent Assembly proposed the resolution that the National Flag of India be a "horizontal tricolour of saffron, white and dark green in equal proportion", with a wheel in navy blue at the centre ?
- Jawaharlal Nehru
 - B. R. Ambedkar
 - Rajendra Prasad
 - Sardar Vallabhbhai Patel
83. Which of the following is/are NOT historical biography/biographies ?
- Dipavamsa
 - Harshacharita
 - Vikramankadevacharita
 - Prithvirajavijaya
- Select the correct answer from the code given below :
- 1 only
 - 2 and 3 only
 - 2, 3 and 4 only
 - 1, 2, 3 and 4
84. Which of the following pairs are correctly matched ?
- | <i>Traveller</i> | <i>Country from</i> |
|--------------------|---------------------|
| (1) Marco Polo | Italy |
| (2) Ibn Battuta | Morocco |
| (3) Nikitin | Russia |
| (4) Seydi Ali Reis | Turkey |
- Select the correct answer using the code given below :
- 1, 2 and 3 only
 - 2 and 3 only
 - 1, 2, 3, and 4
 - 1 and 4 only
85. Which of the following clans are included in the Agnikula Rajputs ?
- Pratiharas
 - Chaulukyas
 - Paramaras
 - Chahamanas
- Select the correct answer from the code given below :
- 1 and 3 only
 - 1, 3 and 4 only
 - 1, 2, 3 and 4
 - 2 and 4 only
86. Who among the following was the author of Humayun Nama ?
- Roshanara Begum
 - Ruquaiya Sultan Begum
 - Gulbadan Begum
 - Gauhara Begum
87. Which one of the following about the Parliament of India is NOT correct ?
- The Parliament consists of the President, the Lok Sabha and The Rajya Sabha.
 - There are no nominated members in the Lok Sabha.
 - The Rajya Sabha cannot be dissolved.
 - Some members of The Rajya Sabha are nominated by the President.
88. Which one of the following statements with regard to the Comptroller and Auditor General (CAG) of India is NOT correct ?
- He is appointed by the President of India.
 - He can be removed from office in the same way as the judge of the Supreme Court of India.
 - The CAG is eligible for further office under the Government of India after he has ceased to hold his office.
 - The salary of the CAG is charged upon the Consolidated Fund of India.

89. The Superintendence, direction and control of elections in India is vested in
 (a) The Supreme Court of India
 (b) The Parliament of India
 (c) The Election Commission of India
 (d) The Chief Election Commissioner
90. Which of the following provision(s) of the Constitution of India became effective from 26th November 1949?
 (1) Electrons
 (2) Citizenship
 (3) Emergency provisions
 (4) Appointment of the Judges
 Select the correct answer using the code given below:
 (a) 1 only (b) 1 and 2 only
 (c) 1, 2 and 3 (d) 2 and 4
91. Which of the following statements regarding construction of Rohtang tunnel is NOT correct?
 (a) It is located at an altitude of 5,000 feet.
 (b) It will provide all-year connectivity to Lahaul and Spiti Valley.
 (c) The tunnel is being built by the Border Roads Organization.
 (d) It will reduce the length of the Leh-Manali highway by approximately 50 km.
92. Who among the following recently became the first woman pilot in Indian Navy?
 (a) Astha Segal
 (b) Roopa A
 (c) Sakthi Maya S
 (d) Shubhangi Swaroop
93. Who among the following Indians did NOT hold the title of Miss World?
 (a) Reita Faria (b) Sushmita Sen
 (c) Diana Hayden (d) Yukta Mookhey
94. Which one of the following countries has failed to qualify for the first time in 60 years for the FIFA World Cup to be held in Russia in the year 2018?
 (a) Mexico (b) Iran
 (c) Saudi Arabia (d) Italy
95. The Defence Technology and Trade Initiative (DTTI) is a forum for dialogue on defence partnership between India and
 (a) Russia
 (b) United States of America
 (c) Israel
 (d) France
96. As per the policy applicable in 2017, how much Foreign Direct Investment (FDI) is permitted in the defence sector in India?
 (a) 49% through the automatic route
 (b) 26% through the government route
 (c) 26% through the automatic route and beyond that up to 49 percent through the government route
 (d) 75% through the automatic route
97. Which one of the following countries did NOT participate in the 21st edition of Exercise Malabar?
 (a) United States of America
 (b) Japan
 (c) India (d) Australia
98. Justice Dalveer Bhandari of India was recently re-elected to the International Court of Justice after Christopher Greenwood pulled out before 12th round of voting. Christopher Greenwood was a nominee of
 (a) Canada (b) Russia
 (c) Britain (d) USA
99. In order to review the Income Tax Act, 1961 and to draft a new Direct Tax Law in consonance with economic needs of the country, the Government of India in November 2017 has constituted a Task Force. Who among the following is made the convenor of it?
 (a) Shri Arvind Subramanian
 (b) Shri Arbind Modi
 (c) Shri Amitabh Kant
 (d) Dr. Bibek Debroy
100. The 5th Global Conference on Cyber Space (GCCS) was held in New Delhi in November, 2017. Which of the following statements about GCCS is/are correct?
 (1) The 4th version of GCCS was held in London.
 (2) The main theme of GCCS 2017 is 'Cyber4All: A Secure and Inclusive Cyberspace for Sustainable Development'.
 (3) 'Bindu' is the logo of GCCS 2017.
 Select the correct answer using the code given below:
 (a) 1 only (b) 2 only
 (c) 2 and 3 only (d) 1, 2 and 3



Answers

Q No	Answer Key	Topic Name	Chapter Name
1	(a)	Heat	Thermal Properties of Matter
2	(a)	Simple Pendulum	Oscillation
3	(b)	Velocity	Motion
4	(c)	Graphical Representation of Motion	Motion
5	(a)	Magnetic Field	Magnetic Effect of Electric Current
6	(d)	Inertia	Laws of Motion
7	(b)	Units	Units and Measurements
8	(d)	Gravitational Force	Gravitation
9	(c)	Buoyancy	Mechanical Properties of Fluid
10	(c)	Ohm's Law	Current Electricity
11	(a)	Reflection	Ray Optics
12	(b)	Hertz	Sound Waves and their Properties
13	(b)	Strong and Weak Acids	Acids, Bases and Salts
14	(c)	Alkali and Base	Acids, Bases and Salts
15	(d)	pH Scale	Acids, Bases and Salts
16	(a)	Mixtures	Elements, Compounds and Mixtures
17	(b)	Washing Soda	Some Important Chemical Compounds
18	(a)	Oxidizing and Reducing Agents	Redox Reactions
19	(c)	AIDS	Human Disease
20	(b)	Prokaryotes	Biological Classification
21	(b)	Gaseous Exchange	Respiratory System
22	(d)	Thallophytes	Plant Kingdom
23	(a)	Taxonomy	The Living World
24	(d)	Meristems	Plant Anatomy
25	(b)	Census	Current Affairs
26	(a)	Winds	Regional Geography of India
27	(c)	Climate	Regional Geography of India
28	(a)	Desert	Current Affairs
29	(d)	Latent Heat	Thermal Properties of Matter
30	(b)	Mass	Gravitation
31	(b)	Equilibrium	Oscillations
32	(b)	Pressure	Mechanical Properties of Fluid
33	(b)	Fluid Pressure	Kinetic Theory of Gases
34	(a)	Plaster of Paris	Some Important Chemical Compounds
35	(c)	Carbon Black	Carbon— Different Forms
36	(a)	Graphite	Carbon and its Compound
37	(c)	Allotropes of carbon	Carbon and its Compound

Q No	Answer Key	Topic Name	Chapter Name
38	(b)	Carbon Monoxide	Carbon and Its Compounds
39	(b)	Use of Alkali Metals	Metals
40	(b)	Discovery of Cell	Cell
41	(b)	Food Chain	Ecosystem
42	(b)	Nervous Tissues	Neural Control
43	(a)	Stomach	Digestive System
44	(c)	Railway	Current Affairs
45	(c)	Institutions	Current Affairs
46	(d)	Rivers	Regional Geography of India
47	(c)	Tiger Reserve	Current Affairs
48	(c)	Coastal Area	Regional Geography of India
49	(a)	Coastal Area	Regional Geography of India
50	(b)	Chemical Weathering	Weathering—Mechanical and Chemical
51	(b)	Heat	Thermal Properties of Matter
52	(c)	Simple Pendulum	Oscillations
53	(d)	Refractive Index	Ray Optics
54	(d)	Magnetic Field	Magnetic Effect of Electric Current
55	(d)	Power of Lens	Ray Optics
56	(d)	Physical Properties of Alkali Metals	Metals and Non-Metals
57	(a)	Nuclear Reactor	Nuclear Reactions and Radioactivity
58	(c)	Conversion of Energy	Power and Energy
59	(d)	Ring of Fire	The Earth, its Shape and Size
60	(a)	Natural Vegetation	Major Natural Regions of the World
61	(c)	Rivers	Regional Geography of India
62	(b)	Location and Distribution of Agricultural	Regional Geography of India
63	(a)	Government Project	Current Affairs
64	(b)	Local Winds	Planetary Winds
65	(d)	Industrial Activities	Regional Geography of India
66	(a)	thermal Power Station	Current Affairs
67	(a)	Important Festivals	Current Affairs
68	(d)	Units	Units and Measurements
69	(a)	Properties of EMW	Electromagnetic Waves
70	(a)	Thermal Capacity	Thermal Properties of Matter
71	(c)	Industrial Revolution	Industrial Revolution and Russian Revolution
72	(d)	Famous Personalities	Current Affairs
73	(a)	Inventions	Current Affairs
74	(d)	Renaissance	Forces Shaping the Modern World; Renaissance
75	(c)	Mughal Dynasty	A Broad Survey of Indian History

Q No	Answer Key	Topic Name	Chapter Name
76	(d)	Mughal Dynasty	A Broad Survey of Indian History
77	(c)	Social Reformer	Freedom Movement in India
78	(a)	Voluntary Associations	A Broad Survey of Indian History
79	(a)	Permanent Settlement	A Broad Survey of Indian History
80	(a)	Battle of Chinhat	Freedom Movement in India
81	(c)	Constituent Assembly	Elementary Study of Indian Constitution and Administration
82	(a)	Constituent Assembly	Elementary Study of Indian Constitution and Administration
83	(a)	Biographies	A Broad Survey of Indian History
84	(c)	Travellers	Role of India in the Present World
85	(c)	Agnikula Rajputs	A Broad Survey of Indian History
86	(c)	Humayunnama	Mughal Dynasty
87	(b)	Indian Parliament	Elementary Study of Indian Constitution and Administration
88	(c)	Cag	Elementary Study of Indian Constitution and Administration
89	(c)	Election Commission	Elementary Study of Indian Constitution and Administration
90	(b)	Constituent of India	Elementary Study of Indian Constitution and Administration
91	(a)	Government Project	Current Affairs
92	(d)	Famous Personalities	Current Affairs
93	(b)	Famous Personalities	Current Affairs
94	(d)	Sports	Current Affairs
95	(b)	Current Important World Events	Current Affairs
96	(a)	Foreign Direct Investment	Current Affairs
97	(d)	Joint Military Exercise	Current Affairs
98	(c)	Famous Personalities	Current Affairs
99	(b)	Appointments	Current Affairs
100	(c)	Current Important World Events	Current Affairs