

Time : 1hr 40mins

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.

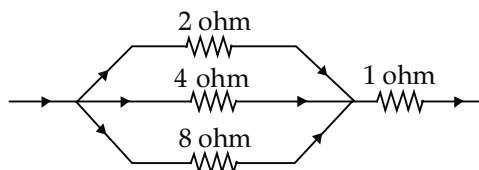
1. A thin disc and a thin ring, both have mass M and radius R . Both rotate about axes through their center of mass and perpendicular to their surfaces at the same angular velocity.
Which of the following is true?
 - (a) The ring has higher kinetic energy.
 - (b) The disc has higher kinetic energy.
 - (c) The ring and the disc have the same kinetic energy.
 - (d) Kinetic energies of both the bodies are zero since they are not in linear motion.
2. Let there be an object having some chemicals in it. It starts moving with a uniform velocity v and a chemical reaction starts happening. In this case, which of the following statement/s is/are correct?
 - (1) Chemical reactions happening in the system cannot change the velocity v of the center of mass of the object.
 - (2) Chemical reactions happening in the system cannot change kinetic energy of the particles inside with respect to the center of mass of object.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
3. In which of the following phenomena do heat waves travel along a straight line with the speed of light?
 - (a) Thermal conduction
 - (b) Thermal convection
 - (c) Thermal radiation
 - (d) Both, thermal conduction and radiation
4. Which one of the following statements regarding Ohm's law is **not** correct?
 - (a) Ohm's law is an assumption that current through a conductor is always directly proportional to the potential difference applied to it.
 - (b) A conducting device obeys Ohm's law when the resistance of a device is independent of magnitude and polarity of applied potential difference.
 - (c) A conducting material obeys Ohm's law when the resistance of material is independent of the magnitude and direction of applied electric field.
 - (d) All homogeneous materials obey Ohm's law irrespective of whether the field is within range or strong.
5. When a ball bounces off the ground, which of the following changes suddenly?
(Assume no loss of energy to the floor)

- (a) Its speed
 (b) Its momentum
 (c) Its kinetic energy
 (d) Its potential energy
6. Which one of the following compounds does **not** exhibit a different oxidation number of the same element?
 (a) Pb_3O_4 (b) Fe_3O_4
 (c) Fe_2O_3 (d) Mn_3O_4
7. Which one of the following statements about glass is **not** correct?
 (a) Glass is often said to be a supercooled liquid.
 (b) Glass has no definite melting point.
 (c) Soda glass is harder than pyrex glass.
 (d) Boron is present in pyrex glass.
8. Which one of the following statements is correct?
 (a) Both boiling and evaporation are surface phenomena.
 (b) Boiling is a surface phenomenon, but evaporation is a bulk phenomenon.
 (c) Both boiling and evaporation are bulk phenomena.
 (d) Boiling is a bulk phenomenon, but evaporation is surface phenomenon.
9. Which one of the following statements about diamond and graphite is **not** correct?
 (a) Diamond has a tetrahedral structure, whereas graphite has a hexagonal planar structure.
 (b) Both physical and chemical properties of diamond and graphite are different.
 (c) Graphite is soft but diamond is hard.
 (d) Graphite is a good conductor of electricity while diamond is not.
10. The raw materials used for the manufacture of Portland cement are
 (a) Lime, silica and sulphur dioxide
 (b) Lime, silica and carbon dioxide
 (c) Lime, silica and alumina
 (d) Lime, silica and boric acid
11. Which one of the following statements about water is **not** true?
 (a) Hydrogen bonds are present in liquid water.
 (b) Water has a high boiling point.
 (c) Water has a high heat of fusion.
 (d) Water is a non-polar molecule.
12. A sample of 'soft soap' contains
 (a) Caesium (b) Potassium
 (c) Calcium (d) Magnesium
13. If an object moves at a non-zero constant acceleration for a certain interval of time, then the distance it covers in that time
 (a) depends on its initial velocity.
 (b) is independent of its initial velocity.
 (c) increases linearly with time.
 (d) depends on its initial displacement.
14. A solid disc and a solid sphere have the same mass and same radius. Which one has the higher moment of inertia about its centre of mass?
 (a) The disc
 (b) The sphere
 (c) Both have the same moment of inertia
 (d) The information provided is not sufficient to answer the question
15. Two substances of densities ρ_1 and ρ_2 are mixed in equal volume and their relative density is 4. When they are mixed in equal masses, relative density is 3. The values of ρ_1 and ρ_2 respectively are
 (a) 6, 2 (b) 3, 5
 (c) 12, 4 (d) 9, 3
16. A car starts from Bengaluru, goes 50 km in a straight line towards south, immediately turns around and returns to Bengaluru. The time taken for this round trip is 2 hours. The magnitude of the average velocity of the car for this round trip
 (a) is 0
 (b) is 50 km/hr
 (c) is 25 km/hr
 (d) cannot be calculated without knowing acceleration
17. "The sum of emf's and potential differences around a closed loop equals zero" is a consequence of
 (a) Ohm's law
 (b) Conservation of charge
 (c) Conservation of momentum
 (d) Conservation of energy.
18. A student measures certain lengths using a meter scale having least count equal to 1 mm.

Which one of the following measurements is more precise?

- (a) 0.50 mm (b) 29.07 cm
(c) 0.925 m (d) 910 mm

19. If the work done on the system or by the system is zero, which one of the following statements for a gas kept at a certain temperature is correct?
(a) Change in internal energy of the system is equal to flow of heat in or out of the system.
(b) Change in internal energy of the system is less than heat transferred.
(c) Change in internal energy of the system is more than the heat flow.
(d) Cannot be determined.
20. Consider the following part of an electric circuit:



The total electrical resistance in the given part of the electric circuit is

- (a) $\frac{15}{8}$ ohm (b) $\frac{15}{7}$ ohm
(c) 15 ohm (d) $\frac{17}{3}$ ohm
21. Which one of the following statements regarding lenses is **not** correct?
(a) A convex lens produces both real and virtual images.
(b) A concave lens produces both real and virtual images.
(c) A convex lens can produce images equal, greater and smaller than the size of the object.
(d) A concave lens always produces images smaller than the size of the object.
22. 10 g of ice at -10°C is mixed with 10 g of water at 0°C . The amount of heat required to raise the temperature of mixture to 10°C is
(a) 400 cal (b) 550 cal
(c) 1050 cal (d) 1200 cal
23. Which one of the following does **not** represent the salt, Calcium carbonate?
(a) Lime water (b) Limestone
(c) Chalk (d) Marble
24. Soaps clean surfaces on the principle based on
(a) Viscosity (b) Floatation
(c) Elasticity (d) Surface tension
25. Which one of the following substances is not a mixture?
(a) Tin (b) Sea water
(c) Soil (d) Air
26. Which one of the following is termed as 'Dry ice'?
(a) Ice present in ice-cream
(b) Solid water at Antarctica
(c) Solid state of carbon dioxide
(d) Solid water of ionosphere
27. Net movement of water from a dilute to a concentrated solution through a selectively permeable membrane is called
(a) Diffusion (b) Dispersion
(c) Osmosis (d) Absorption
28. Blood is a type of
(a) Epithelial tissue (b) Muscular tissue
(c) Nervous tissue (d) Connective tissue
29. Mitochondria are able to produce their own
(a) Nucleus (b) Proteins
(c) Chloroplasts (d) Digestive enzymes
30. Which one of the following statements is correct?
(a) Xylem consists of tracheids, vessels, xylem parenchyma and xylem fibres.
(b) Flexibility in plants is due to sclerenchyma.
(c) Parenchyma have no intercellular spaces.
(d) Xylem consists of sieve plate, sieve tube and companion cells.
31. Who among the following popularized the use of embryological characters in taxonomy?
(a) Carl Linnaeus
(b) Panchanan Maheshwari
(c) Bribal Sahni
(d) Bentham and Hooker
32. Water is heated with a coil of resistance R connected to domestic supply. The rise of temperature of water will depend on
(1) Supply voltage.
(2) Current passing through the coil.
(3) Time for which voltage is supplied.

Select the correct answer from among the following :

- (a) 1, 2 and 3 (b) 1 and 2 only
(c) 1 only (d) 2 and 3 only
33. A pendulum clock is lifted to a height where the gravitational acceleration has a certain value g . Another pendulum clock of same length but of double the mass of the bob is lifted to another height where the gravitational acceleration is $\frac{g}{2}$. The time period of the second pendulum would be:
(in terms of period T of the first pendulum)
- (a) $\sqrt{2}T$ (b) $\frac{1}{\sqrt{2}}T$
(c) $2\sqrt{2}T$ (d) T
34. The loudness of sound depends upon the
(a) velocity of sound waves in the medium.
(b) amplitude of the sound waves.
(c) frequency of the sound waves.
(d) frequency and velocity of the sound waves.
35. Two bodies of mass M each are placed R distance apart. In another system, two bodies of mass $2M$ each are placed $\frac{R}{2}$ distance apart. If F be the gravitational force between the bodies in the first system, then the gravitational force between the bodies in the second system will be
(a) $16F$ (b) $1F$
(c) $4F$ (d) None of these
36. Light rays move in straight lines. But through an optical fibre, they can move in any type of zigzag path because:
(a) the holes through the fibre are extremely fine.
(b) light rays are absorbed at the entry end and relieved at the exit end of the fibre.
(c) scattering of lights occurs inside the fibre.
(d) successive total internal reflections occur as a ray moves through the fibre.
37. Which one of the following statements regarding cathode rays is **not** correct?
(a) Cathode ray particles are electrons.
(b) Cathode ray particles start from anode and move towards cathode.
(c) In the absence of electrical and magnetic fields, cathode rays travel in straight lines.
(d) Television picture tubes are cathode ray tubes.
38. A very large volume of hydrogen can be accommodated by making
(a) non-metallic hydrides
(b) hydrogen peroxide
(c) non-stoichiometric hydrides
(d) alkali metal hydrides
39. Which one of the following is not a monatomic element?
(a) Copper (b) Helium
(c) Iodine (d) Barium
40. Which one of the following represents the correct order of electron releasing tendency of metals?
(a) $Zn > Cu > Ag$
(b) $Ag > Cu > Zn$
(c) $Cu > Zn > Ag$
(d) $Cu > Ag > Zn$
41. Which one of the following is the major constituent of biogas?
(a) Carbon dioxide (b) Nitrous oxide
(c) Methane (d) Oxygen
42. Thyroid gland produces a hormone called 'Thyroxine' which
(a) controls blood glucose levels
(b) controls ovulation
(c) controls metabolic rate
(d) maintains pregnancy
43. Which one of the following is a bacterium that causes disease in the human body?
(a) *Varicella zoster*
(b) *Trypanosoma gambiense*
(c) *Salmonella typhi*
(d) *Plasmodium falciparum*
44. Which one of the following statements regarding viruses is **not** true?
(a) Viruses need living cells to reproduce.
(b) All viruses are parasites.
(c) Viruses can synthesize their food through photosynthesis.
(d) Viruses are similar to chemical substances outside the host.
45. Which one of the following diseases may be caused by the deficiency of vitamin C?
(a) Rickets (b) Rabies
(c) Hepatitis (d) Scurvy

46. Compared to audible sound waves, ultrasound waves have
 (a) higher speed.
 (b) higher frequency.
 (c) longer wavelength.
 (d) both higher speed and frequency.
47. A rigid body of mass 2 kg is dropped from a stationary balloon kept at a height of 50 m from the ground. The speed of the body when it just touches the ground and the total energy when it is dropped from the balloon are respectively. (acceleration due to gravity = 9.8 m/s^2)
 (a) 980 m.s^{-1} and 980 J
 (b) $\sqrt{980} \text{ m.s}^{-1}$ and $\sqrt{980} \text{ J}$
 (c) 980 m.s^{-1} and $\sqrt{980} \text{ J}$
 (d) $\sqrt{980} \text{ m.s}^{-1}$ and 980 J
48. The temperature of a place on one sunny day is 113 in Fahrenheit scale. The Kelvin scale reading of this temperature will be
 (a) 318 K (b) 45 K
 (c) 62.8 K (d) 335.8 K
49. Radiations coming from the Sun are mostly in the form of
 (a) light only.
 (b) light and long wavelength infrared.
 (c) light and short wavelength infrared.
 (d) both short and long wavelength infrared.
50. Which of the following are the characteristics of electromagnetic waves?
 (1) They are elastic waves.
 (2) They can also move in vacuum.
 (3) They have electric and magnetic components which are mutually perpendicular.
 (4) They move with a speed equal to 3 lakh metres per second.
- Select the correct answer using the code given below:
 (a) 1, 2, 3 and 4 (b) 1, 2 and 4 only
 (c) 2 and 3 only (d) 3 and 4 only
51. Which one of the following is a non-metallic mineral?
 (a) Iron (b) Mica
 (c) Copper (d) Bauxite
52. Which one of the following is a Rabi crop in the Northern States of India?
 (a) Rice (b) Bajra
 (c) Barley (d) Ragi
53. The rivers of North-West Europe are good examples of
 (a) parallel pattern of drainage.
 (b) radial pattern of drainage.
 (c) barbed pattern of drainage.
 (d) trellis pattern of drainage.
54. Which one of the following ocean currents is a cold current?
 (a) south Atlantic Drift
 (b) Mozambique Current
 (c) East Australian Current
 (d) Caribbean Current
55. Paradeep Port is located on the delta of river
 (a) Rihand (b) Ganga
 (c) Mahanadi (d) Baitarani
56. Which one of the following hypothesis theory explains the origin of the universe?
 (a) Nebular hypothesis
 (b) Binary theory
 (c) Big Bang theory
 (d) Planetesimal hypothesis
57. Which among the following struggles, based on Gandhi's philosophy of Satyagraha, involved the industrial working class?
 (a) Champaran (b) Kheda
 (c) Ahmedabad (d) Bardoli
58. Consider the following statements related to the Virashaiva tradition in Karnataka:
 (1) The Virashaiva movement was led by a Brahmana named Basavanna, a minister in the court of the Kalachuri ruler in the twelfth century.
 (2) The Virashaivas encouraged practices, approved by the Dharmashastras, like post-puberty marriages and remarriage of widows.
- 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
59. Consider the following statements related to Wellesley's administration:
 (1) In the six years of Wellesley's administration, the army accounted for 42.5 percent of the Company's total expenditure.
 (2) Wellesley's administrative measures were restricted to the affairs of the Company and had nothing to do with the commercial and military affairs of the Indian ruling families.

- Which of the statement/s given above is/are correct?
 (a) 1 only (b) 2 only
 (c) Both 1 and 2 (d) Neither 1 nor 2
60. Consider the following statements concerning the Russian Revolution :
- (1) The Bolsheviks believed that in a repressive society like Tsarist Russia, the party should be disciplined and should control the number of its members.
 (2) The Mensheviks believed that the party should be opened to all (as in Germany)
- Which of the statement/s given above is/are correct?
 (a) 1 only (b) 2 only
 (c) Both 1 and 2 (d) Neither 1 nor 2
61. Which of the following was/were among the decisions taken by the First Continental Congress held in Philadelphia in September 1774?
- (1) It rejected a plan for a colonial union under the British authority.
 (2) It drew up a statement of grievances.
 (3) It agreed upon a scheme to stop trade between the Colonies and England.
- Select the correct answer using the code given below:
 (a) 1 and 3 only (b) 2 only
 (c) 1 and 2 only (d) 1, 2 and 3
62. Which one of the following land territories of Indonesia is **not** touched by the Equator?
 (a) Sumatra (b) Sulawesi
 (c) Java (d) Kalimantan
63. Which one of the following sedimentary rocks is organically formed?
 (a) Shale (b) Chert
 (c) Halite (d) Chalk
64. According to the Koppen climatic classification, the letter code Cfa denotes
 (a) Tropical wet climate
 (b) Humid subtropical climate
 (c) Tundra climate
 (d) Tropical wet and dry climate
65. In which one of the following folds is the axial plane found to be virtually horizontal?
 (a) Isoclinal (b) Anticlinal
 (c) Recumbent (d) Monoclinal
66. How many Ramsar conservation sites have been enlisted from India so far?
 (a) 12 (b) 16
 (c) 27 (d) 62
67. The munda language group belongs to which family?
 (a) Austric
 (b) Dravidian
 (c) Sino-Tibetan
 (d) Indo-European
68. Which one of the following statements about the Suez Canal is **not** correct?
 (a) The Suez Canal was constructed in 1869.
 (b) It links the Mediterranean Sea and the Red Sea.
 (c) It has a six lock system and ships cross the different levels through these locks.
 (d) It has given Europe a new gateway to the Indian Ocean.
69. Which among the following statements is **not** correct about the Reign of Terror?
 (a) The Jacobins dashed out the Girondists with the help of sans-culottes.
 (b) The Jacobins were in league with the French clergy.
 (c) The arrest for anti-revolutionary activities was by law restricted to the political class.
 (d) The Reign of Terror came to an end with the execution of Robespierre by guillotine in July 1794.
70. Who among the following was the first Indian to qualify for the Indian Civil Service?
 (a) Satyendranath Tagore
 (b) Surendranath Banerjee
 (c) R.C. Dutt
 (d) Subhas Chandra Bose
71. Which among the following was/were among the factors for England to experience the Industrial Revolution first?
 (1) The scientific inventions had paved the way for Industrial Revolution.
 (2) It had favourable social and political structures in place.
 (3) Navigable rivers had made inland transport easier.
 (4) It had seen the ascendancy of capitalist practices.

Select the correct answer using the code given below :

- (a) 1 and 3 only (b) 1, 3 and 4 only
(c) 4 only (d) 1, 2, 3 and 4
72. Article 46 of the Constitution of India refers to the promotion of educational and economic interests of
(a) religious minorities.
(b) Scheduled Castes, Scheduled Tribes and other weaker sections.
(c) displaced persons from large irrigation projects.
(d) the economically deprived.
73. Who was the Education Minister in the first Cabinet of independent India?
(a) Sarvepalli Radhakrishnan
(b) Sardar Vallabhbhai Patel
(c) Maulana Abul Kalam Azad
(d) Acharya Narendra Dev
74. Who among the following died in exile?
(a) Rani Laxmibai
(b) Bahadur Shah Zafar
(c) Tantia Tope
(d) Nana Saheb
75. The normal lapse rate of temperature of Earth's atmosphere drops to 0° C at the
(a) upper part of ionosphere.
(b) upper-boundary of the tropopause.
(c) lower part of mesosphere.
(d) upper boundary of stratopause.
76. The headquarters of National Research Laboratory for Conservation of Cultural Property (NRLC) is located at
(a) New Delhi (b) Lucknow
(c) Kolkata (d) Bhopal
77. Loktak lake is situated in the State of
(a) Sikkim (b) Manipur
(c) Odisha (d) Mizoram
78. Stalactite, stalagmite and pillars are the depositional landforms of
(a) running water.
(b) wind.
(c) glacier.
(d) underground water.
79. A deep valley characterized by steep step-like slope is known as
(a) U-shaped valley. (b) Blind valley.
(c) Gorge. (d) Canyon.
80. Which one of the following is a major plate?
(a) Pacific Plate (b) Cocos Plate
(c) Arabian Plate (d) Philippine Plate
81. Lithosphere consists of
(a) upper and lower mantle.
(b) crust and core.
(c) crust and uppermost solid mantle.
(d) mantle and core.
82. The principal component(s) of Nehru-Mahalonobis strategy of economic development was/were
(1) Restructuring economic dependency on metropolitan capitalism into independent economic development.
(2) Transition from semi-feudal agriculture to capitalist farming.
- 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
83. The provisions of the Fifth Schedule of the Constitution of India shall **not** apply to the administration and control of the Scheduled Areas and Scheduled Tribes in
(1) Chhattisgarh, Jharkhand and Odisha
(2) Assam and Tripura
(3) Meghalaya and Mizoram
- Select the correct answer using the code given below :
- (a) 1 only (b) 1 and 2 only
(c) 2 and 3 only (d) 1, 2 and 3
84. Consider the following statements related to Dayanand's idea of social reform :
(1) Dayanand's reform envisaged a social order, where different castes performed functions suitable to their status determined by merit.
(2) Dayanand's 'robust Vedic counterpart' challenged the masculine West that had enslaved the Aryavarta.
- Which of the statement/s given above is/are correct?
- (a) 1 only (b) 2 only
(c) Both 1 and 2 (d) Neither 1 nor 2
85. Consider the following statements concerning the American War of Independence :
(1) The Americans raised the slogan, 'No taxation without representation'.
(2) The American merchants resorted to the boycott of the British products.

- Select the correct answer using the code given below:
- (a) 1 only (b) 1 only
(c) Both 1 and 2 (d) Both 1 nor 2
86. The first UDAY (Utkrisht Double Decker Air-Conditioned Yatri) Express train runs between
 - (a) Delhi and Kalka
 - (b) Bengaluru and Coimbatore
 - (c) Chennai and Visakhapatnam
 - (d) Chennai and Bengaluru
 87. Who among the following were selected for the Rajiv Gandhi Khel Ratna Award 2019?
 - (a) Vijay Kumar and Yogeshwar Dutt
 - (b) Sakshi Malik and Jitu Rai
 - (c) Virat Kohli and Mirabai Chanu
 - (d) Bajrang Punia and Deepa Malik
 88. Betel leaf of which one of the following States has been accorded a GI tag recently?
 - (a) Andhra Pradesh (b) Madhya Pradesh
 - (c) Kerala (d) Mizoram
 89. SAMARTH is a flagship skill development scheme of which one of the following Ministries?
 - (a) Ministry of Textiles
 - (b) Ministry of Agriculture and Farmers Welfare
 - (c) Ministry of Skill Development and Entrepreneurship
 - (d) Ministry of Human Resources Development
 90. CORAS is a separate Commando Unit of
 - (a) National Security Guard
 - (b) Central Industrial Security Force
 - (c) Railway Protection Force
 - (d) Central Reserve Police Force
 91. Which one of the following statements is **not** true about Ijarah system?
 - (a) It was a system of revenue farming.
 - (b) It encouraged the role of middlemen.
 - (c) Under this system, land revenue was fixed for the peasant.
 - (d) The ijaradar paid a fixed amount to the State treasury.
 92. During the Swadeshi movement, a National College was started in Calcutta under the principalship of
 - (a) Rabindranath Tagore
 - (b) Aurobindo Ghosh
 - (c) Rajani Kant Sen
 - (d) Syed Abu Mohammad
 93. The ruins of Vijayanagara (Hampi) were brought to public light in the year 1800 by the following British surveyor and engineer:
 - (a) James Prinsep (b) Colin Mackenzie
 - (c) James Rennell (d) Charles Metcalfe
 94. Which country among the following was **not** a part of the Third Coalition against Napoleon?
 - (a) Russia (b) Prussia
 - (c) Sweden (d) France
 95. Which one of the following pairs of travellers and their nationality is **not** correctly matched?
 - (a) Ibn Battuta - Moroccan
 - (b) Duarte Barbosa - Portuguese
 - (c) Jean Baptiste Tavernier - Dutch
 - (d) Niccolao Manucci - Venetian
 96. World Humanitarian Day is celebrated on
 - (a) 26th June (b) 17th July
 - (c) 19th August (d) 27th September
 97. Which one of the following is the name given to the lander of Chandrayaan-2?
 - (a) Vigyan (b) Anusandhan
 - (c) Pragyan (d) Vikram
 98. Along with Pranab Mukherjee, how many more persons were conferred the Bharat Ratna Award in the year 2019?
 - (a) One (b) Two
 - (c) Three (d) Four
 99. Aiswhwarya Pissay excels in which one of the following sports?
 - (a) Badminton (b) Boxing
 - (c) Motorsports (d) Chess
 100. Which one of the following films was adjudged as the Best Feature Film in the 66th National Film Awards?
 - (a) Bulbul Can Sing (b) Hellaro
 - (c) Badhaai Ho (d) Uri



Answers

Q No	Answer Key	Topic Name	Chapter Name
1	(a)	Moment of Inertia	System of Particles and Rotational Motion
2	(a)	Centre of Mass	System of Particles and Rotational Motion
3	(c)	Heat Transfer	Thermal Properties of Matter
4	(d)	Ohm's Law	Current Electricity
5	(b)	Momentum	Laws of Motion
6	(c)	Oxidation State	Redox Reactions
7	(c)	Glass	Elements, Compounds and Mixtures
8	(d)	Properties of Liquid	States of Matter
9	(b)	Allotropes of Carbon	Carbon and Compounds of Carbon
10	(c)	Cement	Some Important Chemical Compounds
11	(d)	Water	Properties of Air and Water
12	(b)	Soaps and Detergents	Some Important Chemical Compounds
13	(a)	Acceleration	Motion
14	(a)	Moment of Inertia	System of Particles and Rotational Motion
15	(a)	Density	Mechanical Properties of Fluid
16	(a)	Velocity	Motion
17	(d)	Electromagnetic Force	Current Electricity
18	(c)	Precision	Units and Measurement
19	(a)	First Law of Thermodynamics	Thermodynamics
20	(b)	Resistance	Current Electricity
21	(b)	Lenses	Ray Optics
22	(c)	Latent Heat	Thermal Properties of Matter
23	(a)	Limestone	Some Important Chemical Compounds
24	(d)	Soap	Mixtures and Compounds
25	(a)	Elements	Elements, Compounds and Mixtures
26	(c)	Carbon dioxide	Carbon and Its Compound
27	(c)	Properties of Solutions	Solutions
28	(d)	Blood	Tissues and Tissues
29	(b)	Mitochondria	Cell
30	(a)	Xylem	Plant Anatomy
31	(b)	Tissue Culture	Strategies of Enhancement
32	(a)	Joule's Law	Current Electricity
33	(a)	Simple Pendulum	Oscillations
34	(b)	Sound	Waves
35	(a)	Gravitational Force	Gravitation
36	(d)	Total Internal Reflection	Ray Optics
37	(b)	Cathode rays	Physical Properties and States of Matter
38	(c)	Hydrogen	Preparation and Properties
39	(c)	Atomicity	Elements, Compounds and Mixtures
40	(a)	Reactivity of Metals	Metals and Non-Metals

Q No	Answer Key	Topic Name	Chapter Name
41	(c)	Alkanes	Hydrocarbons
42	(c)	Thyroid Gland	Chemical Coordination
43	(c)	Disease	Human Disease
44	(c)	Viruses	Biological Classification
45	(d)	Disease	Human Disease
46	(b)	Sound	Waves
47	(d)	Energy	Work, Energy and Power
48	(a)	Temperature	Thermal Properties of Matter
49	(c)	Properties of Electromagnetic Waves	Electromagnetic Waves
50	(c)	Properties of Electromagnetic Waves	Electromagnetic Waves
51	(b)	Metallurgy	Ores and Minerals
52	(c)	Agriculture	Regional Geography of India
53	(a)	Rivers	Major Natural regions of the World
54	(a)	Ocean Currents	Ocean Currents and Tides Atmosphere and its composition
55	(c)	Port	Current Affairs
56	(c)	Big Bang Theory	Origin of the Universe
57	(c)	Satyagraha	Basic Teachings of Mahatma Gandhi
58	(a)	Virashaiva Movement	Forces shaping the modern world
59	(d)	Viceroy	Viceroy and Governor Generals
60	(c)	Bolsheviks	Russian Revolution
61	(b)	First Continental Congress	Forces shaping the modern world
62	(c)	Equator	Latitudes and Longitudes
63	(d)	Rocks	Origin of Earth. Rocks and their classification
64	(b)	Climates	Types of Climates
65	(c)	Axial Plane	Physical Properties and States of Matter
66	(c)	Conservation Sites	Current Affairs
67	(a)	Languages	Current Affairs
68	(c)	Suez Canal	Major Natural regions of the World
69	(c)	Reign of Terror	Forces shaping the modern world;
70	(a)	Selections	Current Affairs
71	(d)	Factoe of England	Industrial Revolution
72	(b)	Indian Constitution	Elementary study of Indian Constitution and Administration
73	(c)	Cabinet Ministry	Current Affairs
74	(b)	Famous Personalities	Freedom Movement in India
75	(b)	Earth Atmosphere	Temperature and Atmospheric Pressure
76	(b)	Headquarters	Current Affairs
77	(b)	Lakes	Current Affairs
78	(d)	Depositional Landforms	Mineral and Power resources

Q No	Answer Key	Topic Name	Chapter Name
79	(d)	Valleys	The Earth, its shape and size
80	(a)	Plates	The Earth, its shape and size
81	(c)	Lithosphere	The Earth, its shape and size
82	(d)	Nehru Mahalonobis Plan	Elementary knowledge of Five Year Plans of India
83	(c)	Schedules	Elementary study of Indian Constitution and Administration
84	(b)	Dayanand Saraswati	Role of India in the present world
85	(c)	War of American Independence	Forces shaping the modern world
86	(b)	UDAY Train	Current Affairs
87	(d)	Awards	Current Affairs
88	(c)	GI Tag	Current Affairs
89	(a)	Governmental Schemes	Current Affairs
90	(c)	Defence	Current Affairs
91	(c)	Ijarah System	A broad survey of Indian History, with emphasis on Culture and Civilisation
92	(b)	Swadeshi Movement	Freedom Movement in India
93	(b)	Vijayanagar	Forces shaping the modern world
94	(d)	Napolean	Exploration and Discovery
95	(c)	Foreign travellers	A broad survey of Indian History, with emphasis on Culture and Civilisation
96	(c)	Important days	Current Affairs
97	(d)	Satellites	Current Affairs
98	(b)	Awards	Current Affairs
99	(c)	Sports	Current Affairs
100	(b)	Awards	Current Affairs