NDA/NA
National Defence Academy / Naval Academy

GENERAL ABILITY TEST
II

QUESTION PAPER
2018

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.*

Directions : (Q. 1–6) The following six (6) items consist of two statements, Stat ement I and Statement II. Examine these two statements carefully and select the correct answer 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 Statements II is false.

(d) Statement I is false but Statement II is true.

1. **Statement I :** The pitch of a sound wave depends upon its frequency.
Statement II : The loudness of a sound wave depends upon its amplitude.

2. **Statement I :** Sound waves cannot propagate in vacuum.
Statement II : Sound waves are elastic waves and require a medium to propagate.

3. **Statement I :** The Government of India Act, 1935 introduced Dyarchy at the Centre.
Statement II : The provincial autonomy was granted to the Provinces.

4. **Statement I :** Mughal Painting reached its climax during the reign of Jahangir.
Statement II : Aurangzeb's Court was adorned by some of the best known artists of the Mughal School of Painting.

5. **Statement I :** Phytoplankton produce most of the organic carbon in the ocean.
Statement II : Algae are produced in the cold water biome.

6. **Statement I :** Geostrophic wind blows above a height of 600 metres, parallel to the isobars.
Statement II : Geostrophic wind is the horizontal wind velocity, in which the Coriolis force balances the horizontal pressure force.

7. Which one of the following groups of cellular organelles contains DNA?
(a) Mitochondria, nucleus, chloroplast
(b) Mitochondria, golgi bodies, nucleus
(c) Mitochondria, plasma membrane, nucleus
(d) Chloroplast, nucleus, ribosomes

8. One of the additional functions of Smooth Endoplasmic Reticulum (SER) is
(a) protein synthesis
(b) lipid synthesis
(c) storage of biomolecules
(d) detoxification of toxic substances

9. Damage to the apical meristem of a growing young plant will affect the
(a) length of the plant
(b) colour of the flower
(c) colour of the leaves
(d) taste of the fruits

10. Which of the following kingdoms has/have only unicellular organisms?
(a) Monera only
(b) Protista only
(c) Monera and Protista both
(d) Protista and Fungi both

11. Which one of the following is a waterborne disease?
(a) Jaundice **(b)** Tuberculosis
(c) Rabies **(d)** Arthritis

12. The atomic number of an element is 8. How many electrons will it gain to form a compound with sodium?
(a) One **(b)** Two
(c) Three **(d)** Four

13. A sample of oxygen contains two isotopes of oxygen with masses 16 u and 18 u respectively. The proportion of these isotopes in the sample is 3 : 1. What will be the average atomic mass of oxygen in this sample?
(a) 17.5 u **(b)** 17 u
(c) 16 u **(d)** 16.5 u

14. Which one of the following is a heterogeneous mixture?
(a) Hydrochloric acid **(b)** Vinegar
(c) Milk **(d)** Soda water

15. What is the formula mass of anhydrous sodium carbonate? (Given that the atomic masses of sodium, carbon and oxygen are 23 u, 12 u and 16 *u* respectively)
(a) 286 u **(b)** 106 u
(c) 83 u **(d)** 53 u

16. Which one of the following is called 'syngas'?
(a) $C(s) + H_2O(g)$ **(b)** $CO(g) + H_2O(g)$
(c) $CO(g) + H_2(g)$ **(d)** $NO_2(g) + H_2(g)$

17. The frequency of ultrasound waves is
(a) less than 20 Hz
(b) between 20 Hz and 2 kHz
(c) between 2 kHz and 20 kHz
(d) greater than 20 kHz

18. The magnetic field strength of a current-carrying wire at a particular distance from the axis of the wire
(a) depends upon the current in the wire
(b) depends upon the radius of the wire
(c) depends upon the temperature of the surroundings
(d) None of the above

19. A stainless steel chamber contains Ar gas at temperature T and pressure P. The total number of Ar atoms in the chamber is n. Now Ar gas in the chamber is replaced by CO_2 gas and the total number of CO_2 atoms in the chamber is $\frac{n}{2}$ at the same temperature T. The pressure in the chamber now is P′. Which one of the following relations holds true? (Both the gases behave as ideal gases)
(a) $P' = P$ **(b)** $P' = 2P$
(c) $P' = \frac{P}{2}$ **(d)** $P' = \frac{P}{4}$

20. Which one of the following is the correct relation between A° and nm?
(a) $1\ nm = 10^{-1}\ A°$ **(b)** $1\ nm = 10\ A°$
(c) $1\ nm = 1\ A°$ **(d)** $1\ nm = 10^{-2}\ A°$

21. The full form of LED is
(a) Light Emitting Diode
(b) Light Emitting Device
(c) Light Enhancing Device
(d) Light Enhancing Diode

22. If a free electron moves through a potential difference of 1 kV, then the energy gained by the electron is given by
(a) 1.6×10^{-19} J
(b) 1.6×10^{-16} J
(c) 1×10^{-19} J
(d) 1×10^{-16} J

23. Consider the following places of India:
(1) Itanagar
(2) Imphal
(3) Agartala
(4) Aizawl

Which one of the following is the correct chronological order of the above places in terms of sunrise time?

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

24. Which one of the following is known as uplands of delta region?

(a) Bef **(b)** Bils
(c) Peh **(d)** Chars

25. Consider the following Wildlife Sanctuaries of India:

(1) Shikari Devi **(2)** Bhadra
(3) Simlipal **(4)** Pachmarhi

Which one of the following is the correct order of the above Wildlife Sanctuaries in terms of their location from south to north?

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

26. Which one of the following statements about temperature is correct?

(a) Temperature decreases with height in the stratosphere.
(b) Temperature is constant at different height in the stratosphere.
(c) Temperature increases with height in the troposphere at an average rate of 6.5°C per kilometre.
(d) Temperature decreases with height in the troposphere at an average rate of 6.4°C per kilometre.

27. Which one of the following is known as a zone of sharp salinity change in the vertical section of ocean?

(a) Thermocline **(b)** Halocline
(c) Photic zone **(d)** Pycnocline

28. Permanent hardness of water **cannot** be removed by which one of the following methods?

(a) Treatment with washing soda
(b) Calgon's method
(c) Boiling
(d) Ion exchange method

29. Which one of the following reactions will give NO (nitric oxide) gas as one of the products?

(a) $3Cu + 8HNO_3$ (dilute) $\rightarrow$
(b) $Cu + 4HNO_3$ (conc.) $\rightarrow$
(c) $4Zn + 10HNO_3$ (dilute) $\rightarrow$
(d) $Zn + 4HNO_3$ (conc.) $\rightarrow$

30. Which one of the following is a tribasic acid?

(a) Hydrochloric acid
(b) Nitric acid
(c) Sulphuric acid
(d) Phosphoric acid

31. Which one of the following statements is **not** correct?

(a) All carbons in diamond are linked by carbon-carbon single bond.
(b) Graphite is layered structure in which layers are held together by weak van der Waals forces.
(c) Graphite layers are formed by hexagonal rings of carbon atoms.
(d) Graphite layers are held together by carbon-carbon single bond.

32. Which one of the following is called dry ice?

(a) Solid carbon dioxide
(b) Liquid carbon dioxide
(c) Liquid nitrogen
(d) Liquid ammonia

33. The acidic semi digested food coming out of the stomach is neutralized by

(a) pancreatic juice
(b) duodenal secretion
(c) large intestine secretion
(d) bile juice

34. The oxygenated blood from the lungs is received by the

(a) left auricle **(b)** left ventricle
(c) right auricle **(d)** right ventricle

35. The oxygen evolved during photosynthesis comes from splitting of

(a) water **(b)** carbon dioxide
(c) oxygen **(d)** light

36. Which one of the following depcits the correct circuit of a reflex arc?

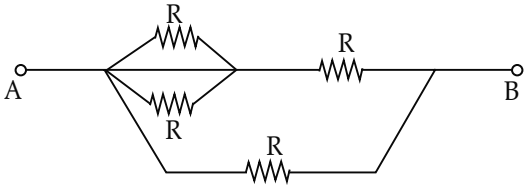
(a) Effector-sensory neuron-spinal cord-motor neuron-receptor.
(b) Receptor-sensory neuron-spinal cord-motor neuron-effector.
(c) Receptor-sensory neuron-brain-motor neuron-effector.
(d) Sensory neuron-receptor-brain-effector-motor neuron.

37. If one set of chromosomes for a given plant is represented as N; in case of double fertilization, the zygote and the endosperm nucleus of a

diploid plant would have how many sets of chromosomes respectively?

(a) N and 2N **(b)** 2N and 2N
(c) N and 3N **(d)** 2N and 3N

38. Consider the following circuit:



Which one of the following is the value of the resistance between points A and B in the circuit given above?

(a) $\frac{2}{5}R$ **(b)** $\frac{3}{5}R$
(c) $\frac{3}{2}R$ **(d)** 4R

39. The absolute zero temperature is 0 Kelvin. In °C unit, which one of the following is the absolute zero temperature?

(a) 0 °C **(b)** –100 °C
(c) –273.15 °C **(d)** –173.15 °C

40. Consider the following statements about visible light, UV light and X-rays:

(1) The wavelength of visible light is more than that of X-rays.
(2) The energy of X-ray photons is higher than that of UV light photons.
(3) The energy of UV light photons is less than that of visible light photons.

Which of the statements given above is/are correct?

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

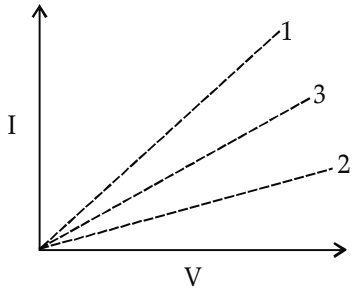
41. The time period of oscillation of a simple pendulum having length L and mass of the bob *m* is given as T. If the length of the pendulum is increased to 4L and the mass of the bob is increased to 2*m*, then which one of the following is the new time period of oscillation?

(a) T **(b)** 2T
(c) 4T **(d)** $\frac{T}{2}$

42. The connecting cable of electrical appliances like electric iron, water heater or room heater contains three insulated copper wires of three different colours–red, green and black. Which one of the following is the correct colour code?

(a) Red–live wire, Green-neutral wire, Black–ground wire
(b) Red–neutral wire, Green–ground wire, Black-live wire
(c) Red–live wire, Green–ground wire, Black–neutral wire
(d) Red–ground wire, Green-live wire, Black–neutral wire

43. The graphs between current (I) and voltage (V) for three linear resistors 1, 2 and 3 are given below:



If R_1, R_2 and R_3 are the resistances of these resistors, then which one of the following is correct?

(a) $R_1 > R_2 > R_3$ **(b)** $R_1 < R_3 < R_2$
(c) $R_3 < R_1 < R_2$ **(d)** $R_3 > R_2 > R_1$

44. Consider the following statements about a microscope and a telescope:

(1) Both the eyepiece and the objective of microscope are convex lenses.
(2) The focal length of the objective of a telescope is larger than the focal length of its eyepiece.
(3) The magnification of a telescope increases with the increase in focal length of its objective.
(4) The magnification of a microscope increases with the increase in focal length of its objective.

Which of the statements given above are correct?

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

45. A planet has a mass M_1 and radius R_1. The value of acceleration due to gravity on its surface is g_1. There is another planet 2, whose mass and

radius both are two times that of the first planet. Which one of the following is the acceleration due to gravity on the surface of planet 2?

(a) g_1 **(b)** $2g_1$

(c) $\frac{g_1}{2}$ **(d)** $\frac{g_1}{4}$

46. Match List-I with List-II and select the correct answer using the code given below the Lists:

List-I (*River Basin*)	**List-II** (*Town*)
A. Bhagirathi	**(1)** Lansdowne
B. Alaknanda	**(2)** Narendra Nagar
C. Nayar	**(3)** Uttarkashi
D. Ganga	**(4)** Pauri

Code:

	A	**B**	**C**	**D**
(a)	3	1	4	2
(b)	3	4	1	2
(c)	2	4	1	3
(d)	2	1	4	3

47. Match List-I with List-II and select the correct answer using the code given below the Lists:

List-I (*Local Wind*)	**List-II** (*Place*)
A. Yamo	**(1)** Sudan
B. Black Roller	**(2)** France
C. Bise	**(3)** Japan
D. Haboob	**(4)** North America

Code:

	A	**B**	**C**	**D**
(a)	1	4	2	3
(b)	1	2	4	3
(c)	3	4	2	1
(d)	3	2	4	1

48. 'Majuli', the river island, is located in which one of the following rivers?

(a) Jamuna **(b)** Padma

(c) Ganga **(c)** Brahmaputra

49. Which one of the following Indian States has recorded negative growth of population as per Census 2011?

(a) Manipur **(b)** Mizoram

(c) Tripura **(d)** Nagaland

50. Which one of the following types of cloud is characterized by continuous precipitation?

(a) Cirrocumulus

(b) Cumulus

(c) Nimbostratus

(d) Cumulonimbus

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

List-I (*Major Port*)	**List-II** (*Location*)
A. Kolkata	**(1)** Landlocked area
B. Mormugao	**(2)** In the delta region
C. Visakhapatnam	**(3)** On the riverside
D. Paradip	**(4)** On the entrance of the estuary

Code:

	A	**B**	**C**	**D**
(a)	3	1	4	2
(b)	3	4	1	2
(c)	2	4	1	3
(d)	2	1	4	3

52. Which one of the following is not an agent of metamorphism?

(a) Heat **(b)** Compression

(c) Decomposition **(d)** Solution

53. The solution of which one of the following will have pH less than 7?

(a) NaOH **(b)** KCl

(c) $FeCl_3$ **(d)** NaCl

54. Which one of the following is an oxidation-reduction reaction?

(a) $NaOH + HCl \rightarrow NaCl + H_2O$

(b) $CaO + H_2O \rightarrow Ca(OH)_2$

(c) $2Mg + O_2 \rightarrow 2MgO$

(d) $Na_2SO_4 + BaCl_2 \rightarrow BaSO_4 + 2NaCl$

55. Which one of the following is not used as fertilizer?

(a) Ammonium nitrate

(b) Ammonium sulphide

(c) Ammonium phosphate

(d) Ammonium sulphate

56. Which one of the following is the chemical formula of gypsum?

(a) $CaSO_4.2H_2O$ **(b)** Ca_2SiO_4

(c) $2CaSO_4.H_2O$ **(d)** $CaSO_4$.

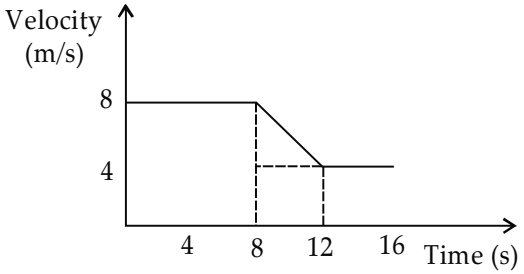
57. Which one of the following statements about the law of conservation of mass is correct?

(a) A given compound always contains exactly same proportion of elements.

(b) When gases combine in a reaction, they do so in a simple ratio by volume, provided all gases are at room temperature.
(c) Matter can neither be created nor destroyed.
(d) Equal volumes of all gases at same temperature and pressure contain equal number of molecules.

58. The wavelength of X-rays is of the order of
(a) 1 A° **(b)** 1 μm
(c) 1 mm **(d)** 1 cm

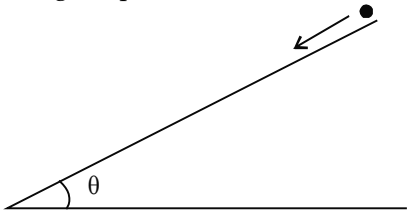
59. Consider the following velocity and time graph:



Which one of the following is the value of average acceleration from 8 s to 12 s?
(a) 8 m/s^2 **(b)** 12 m/s^2
(c) 2 m/s^2 **(d)** –1 m/s^2

60. If the focal length of a convex lens is 50 cm, which one of the following is its power?
(a) +2 dioptre **(b)** +0.25 dioptre
(c) –0.5 dioptre **(d)** +0.5 dipotre

61. A ball is released from rest and rolls down an inclined plane, as shown in the following figure, requiring 4 s to cover a distance of 100 cm along the plane :



Which one of the following is the correct value of angle θ that the plane makes with the horizontal? (g = 1000 cm/s^2)

(a) $\theta = \sin^{-1}\left(\frac{1}{9.8}\right)$ **(b)** $\theta = \sin^{-1}\left(\frac{1}{20}\right)$

(c) $\theta = \sin^{-1}\left(\frac{1}{80}\right)$ **(d)** $\theta = \sin^{-1}\left(\frac{1}{100}\right)$

62. The coefficient of areal expansion of a material is 1.6×10^{-5} K^{-1}. Which one of the following gives the value of coefficient of volume expansion of this material?
(a) 0.8×10^{-5} K^{-1} **(b)** 2.4×10^{-5} K^{-1}
(c) 3.2×10^{-5} K^{-1} **(d)** 4.8×10^{-5} K^{-1}

63. The refractive indices of two media are denoted by n_1 and n_2, and the velocities of light in these two media are respectively v_1 and v_2. If $\frac{n_2}{n_1}$ is 1.5, which one of the following statements is correct?
(a) v_1 is 1.5 times v_2. **(b)** v_2 is 1.5 times v_1.
(c) v_1 is equal to v_2. **(d)** v_1 is 3 times v_2.

64. Which one of the following greenhouse gases is in largest concentration in the atmosphere?
(a) Chlorofluorocarbon
(b) Nitrous oxide
(c) Carbon dioxide
(d) Methane

65. Match List-I with List-II and select the correct answer using the code given below the Lists:

List-I (*Koppen's Climatic Type*)	**List-II** (*Letter Code*)
A. Tropical wet	**(1)** Af
B. Mid-latitude desert	**(2)** Cs
C. Mediterranean	**(3)** Df
D. Humid continental	**(4)** BWk

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

66. Match List-I with List-II and select the correct answer using the code given below the Lists:

List-I (*Railway Zone*)	**List-II** (*Headquarters*)
A. West Central	**(1)** Jabalpur
B. South East Central	**(2)** Gorakhpur
C. East Central	**(3)** Bilaspur
D. North Eastern	**(4)** Hajipur

Code:

	A	**B**	**C**	**D**
(a)	2	3	4	1
(b)	1	4	3	2
(c)	2	4	3	1
(d)	1	3	4	2

67. Which one of the following is the correct descending order of Indian States in terms of sex ratio as per Census 2011?
(a) Mizoram-Manipur-Tripura-Meghalaya
(b) Tripura-Manipur-Meghalaya-Mizoram
(c) Meghalaya-Manipur-Mizoram-Tripura
(d) Manipur-Meghalaya-Tripura-Mizoram

68. Steppe (temperate continental) climate is not experienced in which one of the following places?
(a) Pretoria **(b)** Saskatchewan
(c) Perth **(d)** Buenos Aires

69. Which one of the following is not a process of chemical weathering?
(a) Solution **(b)** Carbonation
(c) Oxidation **(d)** Exfoliation

70. Which one of the following statements is correct for a plane mirror?
(a) Its focal length is zero.
(b) The size of the image of an object placed in front of the mirror is slightly less than that of the object.
(c) The image is virtual, erect and laterally inverted.
(d) Its focal length is 200 cm.

71. An object is placed in front of a convex mirror. Which one of the following statements is correct?
(a) It will never form an inverted image.
(b) The image moves towards the focus when the object moves towards the mirror.
(c) Depending on the position of the object with respect to the mirror, the image can be inverted and real.
(d) The size of the image becomes larger than that of the object when the object is placed at a distance equal to half the focal length.

72. A circular coil of radius R having N number of turns carries a steady current I. The magnetic induction at the centre of the coil is 0.1 tesla. If the number of turns is doubled and the radius is halved, which one of the following will be the correct value for the magnetic induction at the centre of the coil?
(a) 0.05 tesla **(b)** 0.2 tesla
(c) 0.4 tesla **(d)** 0.8 tesla

73. Which one among the following is not a Fundamental Right under the Constitution of India?
(a) Right to equality
(b) Right to freedom
(c) Right to citizenship
(d) Right against exploitation

74. Which one of the following crops was introduced by the Portuguese in India?
(a) Opium **(b)** Coffee
(c) Betel leaf **(d)** Chili

75. Consider the following statements about merchant guilds of South India:
(1) Ayyavole merchant guild was originally established in Aihole.
(2) Manigraman merchant guild was subordinated to the Anjuvannam merchant guild in the 13th century.
Which of the statements given above is/are correct?
(a) 1 only **(b)** 2 only
(c) Both 1 and 2 **(d)** Neither 1 nor 2

76. Which one of the following pairs is correctly matched?

Bhakti Saint		***Philosophy***
(a) Shankara	:	Avadhuta
(b) Ramananda	:	Kevaladvaita
(c) Ramanuja	:	Vishishtadvaita
(d) Chaitanya	:	Advaita

77. When did the Stamp Act Congress consisting of delegates from 9 of the 13 colonies of America meet in New York City?
(a) 1763 **(b)** 1764
(c) 1765 **(d)** 1766

78. Who among the following travellers was from Italy and visited Vijayanagar Kingdom in the fifteenth century?
(a) Nikitin **(b)** Fa-Hien
(c) Bernier **(d)** Nicolo Conti

79. Where did the French East India Company first establish its factory in India?
(a) Calicut
(b) Surat
(c) Pondicherry
(d) Masulipatnam

80. The Central Vigilance Commission was established on the recommendation of which one of the following Committees?
(a) Santhanam Committee
(b) Dinesh Goswami Committee
(c) Tarkunde Committee
(d) Narasimham Committee

81. Match List-I with List-II and select the correct answer using the code given below the Lists:

List-I (*Author*)	**List-II** (*Book*)
A. Bal Gangadhar Tilak	**(1)** The Arctic Home in the Vedas
B. Dadabhai Naoroji	**(2)** Hind Swaraj
C. Mahatma Gandhi	**(3)** The Discovery of India
D. Jawaharlal Nehru	**(4)** Poverty and Un-British Rule in India

Code:

	A	B	C	D
(a)	3	4	2	1
(b)	3	2	4	1
(c)	1	4	2	3
(d)	1	2	4	3

82. Which one of the following is the Official Mascot of the FIFA World Cup, 2018?
(a) Fuleco **(b)** Zakumi
(c) Pille **(d)** Zabivaka

83. The Headquarters of the proposed National Sports University (As per the National Sports University Ordinance, 2018) will be set up in
(a) Chhattisgarh **(b)** Manipur
(c) Kerala **(d)** West Bengal

84. Sentosa island, which was in news recently, is located in
(a) Singapore **(b)** China
(c) Australia **(d)** Sri Lanka

85. India, in June 2018, asserted that any mega connectivity project must respect sovereignty and territorial integrity of the countries. The project referred to above is
(a) North-South Corridor Project
(b) Belt and Road Initiative
(c) Chabahar Port
(d) Panama Canal Expansion

86. Who among the following is not a member of G7?
(a) France
(b) Germany
(c) Russia
(d) Japan

87. Who among the following leaders started the Indian Home Rule League?
(a) Gopal Krishna Gokhale
(b) Mahatma Gandhi
(c) Bal Gangadhar Tilak
(d) J. B. Kripalani

88. Every Judge of the Supreme Court of India is appointed by
(a) the Supreme Court Collegium
(b) the Cabinet
(c) the President of India
(d) the Lok Sabha

89. The Nehru-Mahalanobis Strategy of Development was implemented for the first time by which one of the following Five-Year Plans?
(a) First Five-Year Plan
(b) Second Five-Year Plan
(c) Third Five-Year Plan
(d) Seventh Five-Year Plan

90. Which one of the following is not a part of the Directive Principles of State Policy as enshrined in the Constitution of India?
(a) Equal justice and free legal aid
(b) Protection of monuments and places and objects of national importance
(c) Protection of personal law
(d) Separation of Judiciary from Executive

91. The word 'socialist' was inserted into the Preamble to the Constitution of India through which one of the following Amendment Acts?
(a) 41^{st} Amendment Act
(b) 42^{nd} Amendment Act
(c) 43^{rd} Amendment Act
(d) 44^{th} Amendment Act

92. The place of English East India Company settlement in Madras was known as
(a) Fort William
(b) Fort St. George
(b) Elphinstone Circle
(d) Marble Palace

93. Which one of the following Indian States (other than Himalayan or NE States) ranked first in the Composite Water Management Index as per the report issued by the NITI Aayog in June 2018?
(a) Madhya Pradesh
(b) Karnataka
(c) Gujarat
(d) Maharashtra

94. Who among the following is the ex officio Chairman of the North Eastern Council?
(a) The President of India
(b) The Prime Minister of India
(c) The Union Home Minister
(d) The Union Minister of State (Independent Charge), Ministry of Development of North Eastern Region

95. Which one of the following is the theme of the World Blood Donor Day, 2018?
(a) Blood connects us all
(b) Be there for someone else. Give blood. Share life
(c) Give blood. Give now. Give often
(d) Thank you for saving my life

96. 'Seva Bhoj Yojana', a scheme of the Government of India that seeks to reimburse Central share of CGST and IGST on Food/ Prasad/Langar/Bhandara offered by religious institutions, is introduced recently by which one of the following Ministries?
(a) The Ministry of Culture
(b) The Ministry of Home Affairs
(c) The Ministry of Consumer Affairs, Food and Public Distribution
(d) The Ministry of Social Justice and Empowerment

97. Dr. Bindeshwar Pathak, who was awarded Nikkei Asia Prize, 2018 for Culture and Community, is the founder of
(a) Bachpan Bachao Andolan
(b) PRS Legislative Research
(c) Sulabh Sanitation and Social Reform Movement
(d) Smile Foundation

98. Article 352 of the Constitution of India contains provisions related to
(a) financial emergency.
(b) failure of constitutional machinery in States.
(c) suspension of the enforcement of rights conferred in Part III of the Constitution.
(d) general emergency.

99. The Theosophical Society was led by
(a) A. O. Hume **(b)** Arthur Griffith
(c) Annie Besant **(d)** Lord Dufferin

100. Which one of the following statements about Bipin Chandra Pal is correct?
(a) He was a member of the moderate group of Congress.
(b) He was a member of the extremist group of Congress.
(c) He was the Minister of Defence in the first Government of independent India.
(d) He was the Chief Minister of West Bengal.

Answers

Q No	Answer Key	Topic Name	Chapter Name
1	(b)	Sound Wave	Sound Waves and their Properties
2	(a)	Sound Wave	Sound Waves and their Properties
3	(b)	Indian Constitution	Elementary Study of Indian Constitution and Administration
4	(c)	Mughal Architecture	Mughal Dynasty
5	(b)	Phytoplanktons	Ecosystem
6	(a)	Geostrophic wind	Velocity and Acceleration
7	(a)	Eukaryotic Cell	Cell
8	(b)	Smooth Endoplasmic Reticulum	Cell
9	(a)	Meristems	Plant Anatomy
10	(c)	Monera	Biological Classification
11	(a)	Viral Disease	Human Diseases
12	(b)	Atomic Number	Elementary Ideas about the Structure of Atom
13	(d)	Atomic Number	Elementary Ideas About the Structure of Atom
14	(c)	Heterogenous Mixture	Elements, Compounds and Mixtures
15	(b)	Formula Mass	Atomic Mass and Molecular Mass
16	(c)	Carbon Monoxide	Carbon and Its Compound
17	(d)	Ultra Sound Wave	Sound Waves and their Properties
18	(a)	Magnetic Field	Magnetic Effect of Electric Current
19	(c)	Ideal Gases	Kinetic Theory of Gases
20	(b)	Units	Units and Measurement
21	(a)	LED	Semiconductor Electronics
22	(b)	Electric Potential	Electrostatics
23	(b)	Location	Regional Geography of India
24	(d)	Delta Region	Important Sea Ports and Main Sea, Land and Air Routes of India
25	(c)	Wild Life Sanctuaries	Current Affairs
26	(d)	Temperature	Temperature and Atmospheric Pressure
27	(b)	Salinity	Important Sea Ports and Main Sea, land and air Routes of India
28	(c)	Hard and Soft Water	Chemistry in Everyday Life
29	(a)	Stoichiometry	Chemical Reactions and Equations
30	(d)	Acidity and Basicity	Acids, Bases and Salts
31	(d)	Allotropes of Carbon	Carbon and its Compound
32	(a)	Carbon Dioxide	Carbon and its Compound
33	(d)	Stomach	Digestive System
34	(a)	Heart	Circulatory System

Q No	Answer Key	Topic Name	Chapter Name
35	(a)	Photosynthesis	Growth and Reproduction in Plants and Animals
36	(b)	Reflex Arc	Neural Control
37	(d)	Plants	Growth and Reproduction in Plants and Animals
38	(b)	Resistance	Current Electricty
39	(c)	Temperature	Some Basic Concepts of Chemistry
40	(b)	Properties of EMW	Electromagnetic Waves
41	(b)	Simple Pendulum	Oscillations
42	(c)	Domestic Circuit	Current Electricity
43	(b)	Resistance	Current Electricty
44	(d)	Optical Instruments	Ray Optics
45	(c)	Gravity	Gravitation
46	(a)	Rivers	Current Affairs
47	(c)	Current Important World Events	Current Affairs
48	(d)	Majuli Island	Regional Geography of India
49	(d)	Census	Current Affairs
50	(c)	Condensation and Precipitation	Temperature and Atmospheric Pressure
51	(b)	Location	Regional Geography of India
52	(c)	Rocks	Origin of Earth. Rocks and their Classification
53	(c)	pH of Solutions	Acids, Bases and Salts
54	(c)	Oxidation and Reduction Reactions	Redox Reactions
55	(b)	Chemical Fertilizers	Some Important Chemical Compounds
56	(a)	Gypsum	Some Important Chemical Compounds
57	(c)	Mass	Physical Properties and States of Matter
58	(a)	Properties of EMW	Electromagnetic Waves
59	(d)	Acceleration	Motion
60	(a)	Power of lens	Ray Optics
61	(c)	Motion on Inclined Plane	Laws of Motion
62	(b)	Thermal Expansion	Thermal Properties of Matter
63	(a)	Refractive Index	Ray Optics
64	(c)	Green House Gases	Environmental Chemistry
65	(a)	Temperature and Atmospheric Pressure	Major Natural Regions of the World
66	(d)	Railway	Current Affairs
67	(c)	Census	Current Affairs
68	(a)	Climate	Major Natural Regions of the World
69	(d)	Climate Weathering	Weathering—Mechanical and Chemical
70	(c)	Mirror	Ray Optics

Q No	Answer Key	Topic Name	Chapter Name
71	(a)	Convex Lens	Ray Optics
72	(c)	Mutual Induction	Electromagnetic Induction
73	(c)	Fundamental Rights	Elementary Study of Indian Constitution and Administration
74	(d)	Portugese	Agricultural Crops
75	(a)	Chalukaya Dynasty	A Broad survey of Indian History with Emphasis on Culture and Civilisation
76	(c)	Sufi Saint	A broad Survey of Indian History with Emphasis on Culture and Civilisation
77	(c)	Vijaynagar Kingdom	A broad Survey of Indian History with Emphasis on Culture and Civilisation
78	(d)	Foreign Travellers	A broad survey of Indian History with Emphasis on Culture and Civilisation
79	(b)	French East India Company	Exploration and Discovery
80	(a)	Central Vigilance Commission	Current Affairs
81	(c)	Freedom Fighters	Freedom Movement in India
82	(d)	Sports	Current Affairs
83	(b)	National Sports University	Current Affairs
84	(a)	Sentosa Island	Current Affairs
85	(b)	Government Projects	Current Affairs
86	(c)	International Organisation	Current Affairs
87	(c)	Indian Home Rule League	Freedom Movement in India
88	(c)	Supreme Court	Elementary Study of Indian Constitution and Administration
89	(b)	Five Year Plans	Elementary knowledge of Five Year Plans of India
90	(c)	DPSP	Elementary study of Indian Constitution and Administration
91	(b)	Amendments	Elementary study of Indian Constitution and Administration
92	(b)	East India Company	Forces Shaping the Modern World
93	(c)	Indexes	Current Affairs
94	(c)	Appointments	Current Affairs
95	(b)	Important Days	Current Affairs
96	(a)	Government Schemes	Current Affairs
97	(c)	Prize	Current Affairs
98	(d)	Article 352	Elementary Study of Indian Constitution and Administration
99	(c)	The Theosophical Society	Forces Shaping the Modern World
100	(b)	Freedom Fighters	Freedom Movement in India