

Comprehensive 200 MCQ Challenge

Subjects: Physics, Chemistry, Mathematics, Hindi, English, Reasoning, Current Affairs, HP GK, and Indian GK. **Level:** B.Sc. (Science) & Competitive General Studies.

Mixed MCQs (1-200)

1. The Rohtang Pass connects the Kullu Valley with which other valley? A) Chamba Valley B) Lahaul and Spiti Valley C) Pangi Valley D) Kangra Valley
2. For an ideal gas undergoing an adiabatic process, the relation between pressure P and volume V is $PV^\gamma = \text{constant}$. What is γ for a rigid diatomic gas? A) 5/3 B) 7/5 C) 4/3 D) 9/7
3. Choose the correctly spelled word: A) Accommodation B) Acomodation C) Accomodation D) Acommodation
4. If $\int_0^a f(x)dx = \int_0^a f(a-x)dx$, then the value of $\int_0^\pi x \sin x dx$ is: A) π B) $\pi/2$ C) 2π D) π^2
5. Which of the following sets of quantum numbers is not allowed for an electron in an atom? A) $n = 3, l = 2, m_l = 0, m_s = +1/2$ B) $n = 3, l = 3, m_l = 1, m_s = -1/2$ C) $n = 2, l = 1, m_l = -1, m_s = +1/2$ D) $n = 1, l = 0, m_l = 0, m_s = -1/2$
6. 'अंधे की लाठी' मुहावरे का सही अर्थ क्या है? A) बहुत सुस्त होना B) एकमात्र सहारा C) अंधे को सहारा देना D) रास्ता दिखाना
7. Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next? A) 7 B) 10 C) 12 D) 13
8. Who was the first Chief Commissioner of Himachal Pradesh? A) N.C. Mehta B) E. Penderal Moon C) Bhagwan Sahay D) S. Chakravarti
9. The work done in moving a unit charge around a closed loop in a static electric field is: A) Positive B) Negative C) Zero D) Infinite
10. The major product of the nitration of Benzoic acid is: A) o-nitrobenzoic acid B) m-nitrobenzoic acid C) p-nitrobenzoic acid D) 2,4-dinitrobenzoic acid
11. The value of $\lim_{x \rightarrow 0} \frac{\sin x - x}{x^3}$ is: A) 1/6 B) -1/6 C) 1/3 D) 0
12. Which Indian state recently launched the 'Chief Minister's Sukhashray Scheme' for orphans? A) Punjab B) Haryana C) Himachal Pradesh D) Uttarakhand
13. The time period of a satellite orbiting very close to the Earth's surface depends on: A) Mass of the satellite B) Radius of the Earth C) Both A and B D) Neither A nor B
14. 'शुद्ध वर्तनी' का चयन कीजिए: A) कवीत्री B) कवयित्री C) कवियत्री D) कवीयित्री
15. Find the odd one out: A) Copper B) Iron C) Iodine D) Silver
16. The specific conductance of an electrolyte _____ with dilution. A) Increases B) Decreases C) Remains constant D) First increases then decreases

17. If $y = \log(\tan x)$, then dy/dx is: A) $\sec^2 x$ B) $2 \csc(2x)$ C) $\tan x$ D) $\cot x$

18. Which constitutional amendment is known as the 'Mini Constitution' of India? A) 44th Amendment B) 42nd Amendment C) 73rd Amendment D) 24th Amendment

19. In a p-type semiconductor, the majority charge carriers are: A) Electrons B) Holes C) Neutrons D) Protons

20. What is the IUPAC name of $CH_3COCH_2CH_2CH_3$? A) Pentan-2-one B) Pentan-3-one C) Butan-2-one D) Hexan-2-one

21. 'सत्कार' का विलोम शब्द क्या है? A) तिरस्कार B) अपमान C) निरादर D) अनादर

22. Pointing to a photograph, a man said, "I have no brother or sister, but that man's father is my father's son." Whose photograph was it? A) His own B) His son's C) His father's D) His nephew's

23. The temple of 'Hadimba Devi' is located in which town of Himachal Pradesh? A) Shimla B) Manali C) Kangra D) Mandi

24. The energy of a photon of wavelength λ is given by: A) hc/λ B) $h\lambda/c$ C) $c\lambda/h$ D) $1/hc\lambda$

25. A matrix A is skewed-symmetric if: A) $A^T = A$ B) $A^T = -A$ C) $A^{-1} = A$ D) $|A| = 0$

26. Which of the following gas is used in the manufacture of Vanaspati Ghee? A) Oxygen B) Nitrogen C) Hydrogen D) Carbon Dioxide

27. Antonym of 'ENORMOUS': A) Soft B) Average C) Tiny D) Weak

28. Fundamental Duties were incorporated in the Indian Constitution on the recommendation of which committee? A) Sarkaria Commission B) Swaran Singh Committee C) Verma Committee D) Mandal Commission

29. For a first-order reaction, the time required for 99.9% completion is approximately how many times the half-life? A) 2 times B) 10 times C) 100 times D) 5 times

30. In which year was Himachal Pradesh granted full statehood? A) 1948 B) 1956 C) 1971 D) 1966

31. The wavelength of the first line of the Balmer series for Hydrogen is 6563 \AA . The wavelength of the second line is: A) 4861 \AA B) 1215 \AA C) 1025 \AA D) 3646 \AA

32. If $f(x) = x^2 - 4x + 3$, the value of $f'(2)$ is: A) 0 B) 1 C) -1 D) 4

33. 'लंबोदर' में कौन सा समास है? A) तत्पुरुष B) बहुव्रीहि C) द्विगु D) द्वंद्व

34. Synonym of 'ABANDON': A) Keep B) Forsake C) Adopt D) Guard

35. The 'Battle of Haldighati' was fought in which year? A) 1526 B) 1556 C) 1576 D) 1761

36. Which element has the highest electron affinity? A) Fluorine B) Chlorine C) Bromine D) Iodine

37. A train 120m long passes a man running at 5 km/hr in the same direction in 10 seconds. What is the speed of the train? A) 43.2 km/hr B) 48.2 km/hr C) 50 km/hr D) 45 km/hr

38. The magnetic field at the center of a circular current-carrying coil of radius R is: A) $\mu_0 I / 2R$ B) $\mu_0 I / 2\pi R$ C) $\mu_0 I R / 2$ D) 0

39. The derivative of $e^{\sin x}$ is: A) $e^{\sin x}$ B) $e^{\sin x} \cos x$ C) $e^{\cos x}$ D) $\cos x e^{\sin x-1}$

40. Which district of Himachal Pradesh has the highest literacy rate according to the 2011 Census? A) Hamirpur B) Shimla C) Kangra D) Una

41. In the reaction $CH_3CH_2OH \xrightarrow{H_2SO_4, 443K} A$, the product A is: A) CH_3CHO B) $CH_2 = CH_2$ C) CH_3OCH_3 D) CH_3COOH

42. 'उन्मेष' का संधि विच्छेद क्या है? A) उन + मेष B) उत् + मेष C) उद + मेष D) उ + नमेष

43. Which city will host the 2024 Summer Olympics? A) Tokyo B) Paris C) Los Angeles D) Brisbane

44. The divergence of the curl of any vector field is always: A) 1 B) 0 C) A scalar D) A vector

45. The probability of an impossible event is: A) 1 B) 0 C) 0.5 D) Infinite

46. Which part of the eye controls the amount of light entering it? A) Lens B) Retina C) Iris D) Cornea

47. In the coordination compound $K_4[Fe(CN)_6]$, the oxidation state of Fe is: A) +2 B) +3 C) +4 D) 0

48. Meaning of the idiom 'To hit the nail on the head': A) To hurt someone B) To do something exactly right C) To fail miserably D) To build something

49. 'दुनियां' का पर्यायवाची शब्द क्या है? A) जगत B) व्योम C) अनल D) समीर

50. The Shimla Agreement (1972) was signed between: A) Indira Gandhi and Z.A. Bhutto B) Lal Bahadur Shastri and Ayub Khan C) Atal Bihari Vajpayee and Pervez Musharraf D) Narendra Modi and Nawaz Sharif

51. The work done by a gas during expansion at constant pressure P from volume V_1 to V_2 is: A) $P(V_2 - V_1)$ B) $V(P_2 - P_1)$ C) PV_1 D) 0

52. If $\vec{a} = 2\hat{i} + \hat{j} + 3\hat{k}$ and $\vec{b} = 3\hat{i} + 5\hat{j} - 2\hat{k}$, then $\vec{a} \cdot \vec{b}$ is: A) 5 B) 10 C) -5 D) 0

53. 'सूर्य' का स्त्रीलिंग शब्द क्या है? A) सूर्यणी B) सूर्या C) सुर्यिनी D) सूर्याई

54. The 'Tattapani' hot water springs are located in which district of HP? A) Mandi B) Kullu C) Shimla D) Kinnaur

55. Which gas is known as 'Laughing Gas'? A) NO B) N_2O C) NO_2 D) N_2O_5

56. Find the missing number: 2, 6, 12, 20, 30, ? A) 40 B) 42 C) 44 D) 46

57. One who is able to use both hands with equal facility: A) Ambivalent B) Ambidextrous C) Ambiguous D) Amorphous

58. The first Battle of Tarain (1191) was won by: A) Prithviraj Chauhan B) Muhammad Ghori C) Mahmud Ghazni D) Qutubuddin Aibak

59. The radius of the second Bohr orbit for Hydrogen is: A) 0.53 \AA B) 1.06 \AA C) 2.12 \AA D) 4.24 \AA

60. The degree of the polynomial $P(x) = 4x^3 + 2x^2 + 5x + 7$ is: A) 1 B) 2 C) 3 D) 4

61. Which functional group is present in Aspirin? A) Alcohol and Ester B) Carboxylic acid and Ester C) Aldehyde and Ketone D) Amine and Amide

62. 'आँखों का तारा' का अर्थ है: A) बहुत प्यारा B) बहुत दूर C) आँखों की बीमारी D) कम दिखना

63. The velocity of light is maximum in: A) Water B) Glass C) Vacuum D) Diamond

64. If A is a 2×2 matrix such that $|A| = 10$, then $|2A|$ is: A) 20 B) 40 C) 100 D) 5

65. Which river of Himachal Pradesh is associated with the 'Nathpa Jhakri' project? A) Beas B) Satluj C) Ravi D) Chenab

66. Which vitamin is water-soluble? A) Vitamin A B) Vitamin D C) Vitamin C D) Vitamin K

67. Choose the word that means 'to study of birds': A) Anthropology B) Ornithology C) Entomology D) Zoology

68. The current flows in a circuit only if it is: A) Open B) Closed C) Shorted D) Insulated

69. What is the value of $\int e^x(x-1)dx$? A) $e^x(x-2) + C$ B) $e^x(x+1) + C$ C) $xe^x + C$ D) $(x-1)e^x - e^x + C$

70. 'सच्चिदानन्द' का संधि विच्छेद: A) सत्त + चित + आनंद B) सच + चिद + आनंद C) सत् + चित् + आनंद D) सच + चित + आनंद

71. Who is the author of the book 'The Discovery of India'? A) M.K. Gandhi B) J.L. Nehru C) Sardar Patel D) B.R. Ambedkar

72. The bond angle in NH_3 is less than 109.5° due to: A) Lone pair - Bond pair repulsion B) Bond pair - Bond pair repulsion C) Lone pair - Lone pair repulsion D) Resonance

73. If $A : B = 2 : 3$ and $B : C = 4 : 5$, then $A : C$ is: A) 8:15 B) 2:5 C) 1:2 D) 3:4

74. The capacitance of a parallel plate capacitor increases if: A) Area of plates is decreased B) Distance between plates is increased C) Dielectric constant is increased D) Voltage is increased

75. The sum of first n natural numbers is: A) n^2 B) $n(n+1)/2$ C) $n(n-1)/2$ D) $2n$

76. 'महोत्सव' में कौन सी संधि है? A) दीर्घ B) गुण C) वृद्धि D) यण

77. Which state is the largest producer of Saffron in India? A) Himachal Pradesh B) Jammu & Kashmir C) Uttarakhand D) Arunachal Pradesh

78. Which of the following is an example of an addition polymer? A) Nylon-6,6 B) Bakelite C) Polythene D) Terylene

79. The unit of luminous intensity is: A) Mole B) Candela C) Kelvin D) Ampere

80. A man walks 5km East, then turns right and walks 4km, then turns left and walks 5km. Which direction is he facing now? A) North B) South C) East D) West

81. Change the voice: 'He is writing a letter.' A) A letter was written by him. B) A letter is being written by him. C) A letter has been written by him. D) A letter is written by him.

82. In which district of HP is the 'Maharana Pratap Sagar' lake (Pong Dam) located? A) Kangra B) Una C) Bilaspur D) Chamba

83. The enthalpy of neutralisation of a strong acid and a strong base is: A) -57.1 kJ/mol B) $+57.1 \text{ kJ/mol}$ C) Variable D) Zero

84. The solution of $x^2 + 1 = 0$ in complex numbers is: A) ± 1 B) $\pm i$ C) 0 D) $\pm 2i$

85. 'घोड़े बेचकर सोना' का अर्थ है: A) व्यापार करना B) निश्चिंत होना C) बहुत मेहनत करना D) आलस करना

86. Which planet is known as the 'Red Planet'? A) Venus B) Mars C) Jupiter D) Saturn

87. The resolution of a microscope depends on: A) Wavelength of light B) Numerical aperture C) Both A and B D) Size of the object

88. The oxidation of secondary alcohol gives: A) Aldehyde B) Ketone C) Ether D) Alkane

89. Find the value of $\cos(120^\circ)$: A) $1/2$ B) $-1/2$ C) $\sqrt{3}/2$ D) $-\sqrt{3}/2$

90. The 'Chandra' and 'Bhaga' rivers meet at which place in HP to form the Chenab? A) Tandi B) Keylong C) Udaipur D) Kaza

91. Which fundamental right was described by Dr. B.R. Ambedkar as the 'Heart and Soul of the Constitution'? A) Right to Equality B) Right to Freedom C) Right to Constitutional Remedies D) Right against Exploitation

92. The resistance of an ideal ammeter should be: A) Zero B) Infinite C) 1Ω D) Very high

93. 'स्वागत' का संधि विच्छेद: A) स्व + आगत B) सु + आगत C) स्वा + गत D) स + वागत

94. Fill in the blank: 'If I _____ a bird, I would fly.' A) am B) was C) were D) been

95. In a family of 6, A is B's brother, C is A's father, D is E's brother, E is B's daughter. Who is the grandfather of D? A) A B) B C) C D) E

96. Which is the highest peak of Himachal Pradesh? A) Shilla B) Reo Purgyl C) Pargial D) Shipki

97. The magnetic moment of a d^5 high spin transition metal ion is: A) 1.73 BM B) 3.87 BM C) 5.92 BM D) 4.90 BM

98. The derivative of $\tan x$ is: A) $\sec^2 x$ B) $\sec x \tan x$ C) $\cot x$ D) $-\csc^2 x$

99. 'कमल' का पर्यायवाची शब्द है: A) जलज B) नीरज C) सरोज D) ये सभी

100. Who won the Nobel Prize in Physics 2023 for experimental methods that generate attosecond pulses of light? A) Pierre Agostini B) Ferenc Krausz C) Anne L'Huillier D) All of the above

101. The escape velocity from Earth is v_e . The escape velocity from a planet having twice the radius and same density as Earth is: A) v_e B) $2v_e$ C) $v_e/2$ D) $4v_e$

102. The hybridization of Carbon in Ethene is: A) sp B) sp^2 C) sp^3 D) dsp^2

103. If $n(A) = 10$, $n(B) = 15$ and $n(A \cap B) = 5$, then $n(A \cup B)$ is: A) 25 B) 20 C) 15 D) 30

104. 'हाथ मलना' का अर्थ है: A) हाथ धोना B) पछताना C) मेहनत करना D) ठंड लगना

105. Who built the 'Shakti Devi' temple at Chhattrari in Chamba? A) Meru Varman B) Sahil Varman C) Mushan Varman D) Aditya Varman

106. Which is the longest river in India? A) Brahmaputra B) Ganga C) Godavari D) Indus

107. The energy of an electron in the ground state of Hydrogen is -13.6 eV . The energy in the first excited state is: A) -6.8 eV B) -3.4 eV C) -1.5 eV D) -27.2 eV

108. Which acid is present in Vinegar? A) Citric acid B) Acetic acid C) Lactic acid D) Formic acid

109. The value of $\int_0^1 e^x dx$ is: A) e B) $e - 1$ C) 1 D) 0

110. 'शुद्ध वाक्य' का चयन कीजिए: A) वह कल घर जाएगा। B) उसने कल घर जाना है। C) वह कल घर गया होगा। D) वह कल घर जाता है।

111. If 'BLUE' is coded as '64', what is 'RED' coded as? A) 27 B) 30 C) 35 D) 40

112. The first Governor of Himachal Pradesh was: A) S. Chakravarti B) Y.S. Parmar C) Bajrang Bahadur D) N.C. Mehta

113. Faraday's Law of Induction states that EMF is proportional to the rate of change of: A) Magnetic field B) Magnetic flux C) Electric flux D) Current

114. The bond order of N_2 molecule is: A) 1 B) 2 C) 3 D) 2.5

115. The slope of the line $y = 3x + 5$ is: A) 5 B) 3 C) -3 D) 1/3

116. 'पावक' किसका पर्यायवाची है? A) जल B) अग्नि C) वायु D) पृथकी

117. Who is the current ISRO Chairman (as of late 2023/2024)? A) K. Sivan B) S. Somanath C) A.S. Kiran Kumar D) G. Satheesh Reddy

118. Which state has the longest coastline in India? A) Maharashtra B) Tamil Nadu C) Gujarat D) Andhra Pradesh

119. In an LCR series circuit, at resonance, the impedance is: A) Maximum B) Minimum C) Zero D) Infinite

120. Which gas is liberated when Zn reacts with $NaOH$? A) O_2 B) H_2 C) CO_2 D) NO_2

121. The value of $\log_{10} 1000$ is: A) 1 B) 2 C) 3 D) 4

122. 'आम के आम गुठियों के दाम' लोकोक्ति का अर्थ है: A) बहुत चतुर होना B) दोहरा लाभ होना C) नुकसान होना D) व्यापार में लाभ

123. Look at this series: J14, L16, __, P20, R22. What should fill the blank? A) N18 B) M18 C) N17 D) O18

124. The 'Lavi' fair is celebrated in which place of HP? A) Rampur B) Sundernagar C) Bilaspur D) Solan

125. Which law states that 'The mass of a substance deposited at an electrode is proportional to the quantity of electricity passed'? A) Ohm's Law B) Faraday's First Law of Electrolysis C) Raoult's Law D) Kohlrausch's Law

126. A function $f(x)$ is even if: A) $f(-x) = f(x)$ B) $f(-x) = -f(x)$ C) $f(x) = 0$ D) $f'(x) = 0$

127. Identify the tense: 'He has been playing since morning.' A) Present Continuous B) Present Perfect Continuous C) Past Continuous D) Future Continuous

128. 'जलोढ़' मिट्टी भारत के किस भाग में सर्वाधिक पाई जाती है? A) दक्षिण भारत B) उत्तरी मैदान C) तटीय क्षेत्र D) मरुस्थल

129. The refractive index of water is 1.33. The speed of light in water is: A) $3 \times 10^8 \text{ m/s}$ B) $2.25 \times 10^8 \text{ m/s}$ C) $1.5 \times 10^8 \text{ m/s}$ D) $4 \times 10^8 \text{ m/s}$

130. The most electronegative element is: A) Oxygen B) Nitrogen C) Fluorine D) Chlorine

131. The focus of the parabola $y^2 = 4ax$ is: A) $(a, 0)$ B) $(0, a)$ C) $(-a, 0)$ D) $(0, 0)$

132. 'पगड़ी उछालना' का अर्थ है: A) सम्मानित करना B) अपमानित करना C) खुशी मनाना D) खेल खेलना

133. Which country has recently joined NATO as its 31st member? A) Sweden B) Finland C) Ukraine D) Austria

134. Which valley in HP is known as the 'Granary of Himachal Pradesh'? A) Balh Valley B) Kullu Valley C) Pin Valley D) Kiarda-Dun Valley

135. In an elastic collision: A) Only momentum is conserved B) Only Kinetic Energy is conserved C) Both momentum and Kinetic Energy are conserved D) Neither is conserved

136. Which element is used as a moderator in nuclear reactors? A) Boron B) Cadmium C) Graphite D) Uranium

137. The derivative of $\cos(x^2)$ is: A) $-\sin(x^2)$ B) $-2x \sin(x^2)$ C) $2x \cos(x^2)$ D) $-\sin(2x)$

138. Fill in the blank: 'He died _____ cholera.' A) of B) from C) with D) by

139. If $5 + 3 = 28$ and $9 + 1 = 810$, then $7 + 4 = ?$ A) 311 B) 113 C) 310 D) 211

140. Which pass connects Mandi and Kullu? A) Jalori Pass B) Dulchi Pass C) Padri Pass D) Rohtang Pass

141. The focal length of a concave mirror of radius of curvature 20 cm is: A) 10 cm B) -10 cm C) 40 cm D) -20 cm

142. Phenol reacts with Zinc dust to give: A) Benzene B) Toluene C) Aniline D) Benzaldehyde

143. The value of $\sin(90^\circ)$ is: A) 0 B) 1 C) $1/2$ D) ∞

144. 'उन्नति' का विलोम शब्द: A) अवनति B) पतन C) नीचे D) अल्प

145. 'Swaraj is my birthright and I shall have it' was said by: A) Lala Lajpat Rai B) Bal Gangadhar Tilak C) Bipin Chandra Pal D) Bhagat Singh

146. For a thermodynamic process to be isothermal, which of the following remains constant? A) Pressure B) Volume C) Temperature D) Entropy

147. The monomer of Teflon is: A) Vinyl chloride B) Tetrafluoroethylene C) Isoprene D) Styrene

148. The area of a circle with diameter 14 cm is: A) 154 cm^2 B) 44 cm^2 C) 616 cm^2 D) 308 cm^2

149. 'गिरीश' में कौन सी संधि है? A) दीर्घ B) गुण C) वृद्धि D) यण

150. Where is the 'High Court' of Himachal Pradesh located? A) Dharamshala B) Shimla C) Mandi D) Solan

151. Which of the following is a scalar quantity? A) Force B) Velocity C) Energy D) Acceleration

152. Which gas is used in the 'Haber's Process' along with Nitrogen to produce Ammonia? A) Oxygen B) Chlorine C) Hydrogen D) Helium

153. What is the value of $\int \frac{1}{1+x^2} dx$? A) $\sin^{-1} x + C$ B) $\tan^{-1} x + C$ C) $\log(1 + x^2) + C$ D) $x + C$

154. 'अकल पर पत्थर पड़ना' का अर्थ है: A) बुद्धि भष्ट होना B) चोट लगना C) बहुत याद करना D) मूर्ख बनना

155. Which river flows through the 'Silent Valley' in Kerala? A) Periyar B) Pamba C) Kunthipuzha D) Kaveri

156. The frequency of direct current (DC) is: A) 50 Hz B) 60 Hz C) 0 Hz D) Infinite

157. Which of the following is the strongest oxidizing agent? A) F_2 B) Cl_2 C) Br_2 D) I_2

158. If $x + y = 5$ and $2x - y = 4$, then x is: A) 3 B) 2 C) 1 D) 4

159. 'गागर में सागर भरना' का अर्थ: A) घड़े में पानी भरना B) थोड़े शब्दों में बहुत कुछ कहना C) बहुत मेहनत करना D) समुद्र से पानी लाना

160. Who is known as 'Pahari Gandhi'? A) Baba Kanshi Ram B) Bhajju Ram C) Dr. Y.S. Parmar D) Padam Dev

161. The unit of magnetic field strength (B) is: A) Weber B) Tesla C) Henry D) Farad

162. Which vitamin helps in blood clotting? A) Vitamin A B) Vitamin K C) Vitamin E D) Vitamin B

163. The derivative of $\ln(\sin x)$ is: A) $\tan x$ B) $\cot x$ C) $\sec x$ D) $\cos x$

164. 'आकाश' का विलोम: A) धरती B) पाताल C) गगन D) अंबर

165. The headquarters of SAARC is located in: A) New Delhi B) Kathmandu C) Dhaka D) Islamabad

166. A transformer works on the principle of: A) Self Induction B) Mutual Induction C) Eddy Currents D) Hall Effect

167. Which of the following is not an isotope of Hydrogen? A) Protium B) Deuterium C) Tritium D) Helium

168. If $y = x^x$, then dy/dx is: A) $x \cdot x^{x-1}$ B) $x^x(1 + \ln x)$ C) $x^x \ln x$ D) x^x

169. 'घी के दिए जलाना' का अर्थ: A) पूजा करना B) खुशी मनाना C) अमीर होना D) रोशनी करना

170. Which district of HP is known for 'Chamba Rumal'? A) Kangra B) Chamba C) Kullu D) Shimla

171. The speed of sound in dry air at $0^\circ C$ is approximately: A) 332 m/s B) 344 m/s C) 1500 m/s D) 5000 m/s

172. The catalyst used in the 'Contact Process' for H_2SO_4 is: A) Fe B) V_2O_5 C) Ni D) Pt

173. The distance between the points $(0, 0)$ and $(3, 4)$ is: A) 7 B) 5 C) 1 D) 25

174. 'जंगल' का पर्यायवाची: A) कानन B) वन C) अरण्य D) ये सभी

175. Which planet is closest to the Sun? A) Venus B) Mercury C) Earth D) Mars

176. The escape velocity from the Earth is approximately: A) 11.2 km/s B) 8.0 km/s C) 42 km/s D) 1.6 km/s

177. Which of the following is a noble gas? A) Nitrogen B) Oxygen C) Argon D) Hydrogen

178. The value of $\tan(90^\circ)$ is: A) 1 B) 0 C) Undefined D) $1/\sqrt{3}$

179. 'ईश्वर' का विलोम: A) भगवान B) अनिश्वर C) दानव D) जीव

180. The 'Minjar Mela' is held in which district of HP? A) Chamba B) Mandi C) Solan D) Hamirpur

181. Resistance of a conductor is inversely proportional to its: A) Length B) Area of cross-section C) Temperature D) Resistivity

182. Which non-metal is liquid at room temperature? A) Mercury B) Bromine C) Iodine D) Phosphorus

183. The probability of getting a head in a single coin toss is: A) 1 B) 0 C) 0.5 D) 0.25

184. 'दांत खट्टे करना' का अर्थ: A) हरा देना B) खट्टा खाना C) दांत साफ करना D) परेशान करना

185. Who was the first President of India? A) Dr. S. Radhakrishnan B) Dr. Rajendra Prasad C) Zakir Hussain D) V.V. Giri

186. The unit of electrical energy is: A) Watt B) Joule C) Kilowatt-hour D) Ampere

187. Which hormone is known as the 'Emergency Hormone'? A) Insulin B) Thyroxine C) Adrenaline D) Estrogen

188. If $\sin \theta = 3/5$, then $\cos \theta$ is (in first quadrant): A) 4/5 B) 5/4 C) 3/4 D) 1

189. 'नीलकंठ' में कौन सा समास है? A) तत्पुरुष B) कर्मधारय C) बहुव्रीहि D) द्वंद्व

190. Which glacier feeds the river 'Ravi' in HP? A) Bara Shigri B) Bhadal Glacier C) Chandra Glacier D) Dudhon Glacier

191. Total internal reflection occurs when light travels from: A) Rarer to denser medium B) Denser to rarer medium C) Air to water D) One medium to another of same refractive index

192. Which gas is responsible for global warming? A) O_2 B) CO_2 C) N_2 D) He

193. The derivative of x^n is: A) nx^n B) nx^{n-1} C) $x^{n+1}/(n+1)$ D) n^x

194. 'चोर की दाढ़ी में तिनका' का अर्थ: A) चोर की दाढ़ी होती है B) दोषी व्यक्ति स्वयं डरा रहता है C) चोर की पहचान करना D) दाढ़ी में तिनका होना

195. Which city is known as the 'Pink City' of India? A) Udaipur B) Jaipur C) Jodhpur D) Bikaner

196. The power of a lens of focal length 50 cm is: A) +2D B) -2D C) +0.5D D) +50D

197. Which of the following is a primary battery? A) Lead storage battery B) Dry cell C) Mercury cell D) Both B and C

198. The sum of the first 10 terms of the AP 2, 4, 6, ... is: A) 110 B) 100 C) 120 D) 200

199. 'इति' का विलोम शब्द: A) अथ B) अंत C) समाप्त D) पूर्ण

200. In which district of HP is the 'Shanan' powerhouse located? A) Mandi (Jogindernagar) B) Kangra C) Kullu D) Shimla

Answer Key

1-B, 2-B, 3-A, 4-A, 5-B, 6-B, 7-B, 8-A, 9-C, 10-B, 11-B, 12-C, 13-B, 14-B, 15-C, 16-B, 17-B, 18-B, 19-B, 20-A, 21-A, 22-B, 23-B, 24-A, 25-B, 26-C, 27-C, 28-B, 29-B, 30-C, 31-A, 32-A, 33-B, 34-B, 35-C, 36-B, 37-B, 38-A, 39-B, 40-A, 41-B, 42-B, 43-B, 44-B, 45-B, 46-C, 47-A, 48-B, 49-A, 50-A, 51-A, 52-B, 53-B, 54-A, 55-B, 56-B, 57-B, 58-A, 59-C, 60-C, 61-B, 62-A, 63-C, 64-B, 65-B, 66-C, 67-B, 68-B, 69-A, 70-C, 71-B, 72-A, 73-A, 74-C, 75-B, 76-B, 77-B, 78-C, 79-B, 80-C, 81-B, 82-A, 83-A, 84-B, 85-B, 86-B, 87-C, 88-B, 89-B, 90-A, 91-C, 92-A, 93-B, 94-C, 95-C, 96-A, 97-C, 98-A, 99-D, 100-D, 101-B, 102-B, 103-B, 104-B, 105-A, 106-B, 107-B, 108-B, 109-B, 110-A, 111-A, 112-A, 113-B, 114-C, 115-B, 116-B, 117-B, 118-C, 119-B, 120-B, 121-C, 122-B, 123-A, 124-A, 125-B,

126-A, 127-B, 128-B, 129-B, 130-C, 131-A, 132-B, 133-B, 134-A, 135-C, 136-C, 137-B, 138-A, 139-A, 140-B, 141-B, 142-A, 143-B, 144-A, 145-B, 146-C, 147-B, 148-A, 149-A, 150-B, 151-C, 152-C, 153-B, 154-A, 155-C, 156-C, 157-A, 158-A, 159-B, 160-A, 161-B, 162-B, 163-B, 164-B, 165-B, 166-B, 167-D, 168-B, 169-B, 170-B, 171-A, 172-B, 173-B, 174-D, 175-B, 176-A, 177-C, 178-C, 179-B, 180-A, 181-B, 182-B, 183-C, 184-A, 185-B, 186-C, 187-C, 188-A, 189-C, 190-B, 191-B, 192-B, 193-B, 194-B, 195-B, 196-A, 197-D, 198-A, 199-A, 200-A