

Chemistry-Model Question Paper

76. [BT:A] Picric acid and benzoic acid can be distinguished by the aqueous solution of _____.

- (A) NaHCO_3 (B) Na_2CO_3 (C) NaOH (D) FeCl_3

77. [BT:K] Air pollution is caused by _____.

- (A) industries (B) automobiles (C) pollen grains (D) All of these

78. [BT:K] Soaps are obtained by _____.

- (A) saponification of oils or fats (B) alkaline hydrolysis of glycerol
(C) acidic hydrolysis of esters of fatty acids and glycerol (D) All of these

79. [BT:K] Ascorbic acid is the chemical name of _____.

- (A) vitamin D (B) vitamin A (C) vitamin C (D) vitamin B6

80. [BT:A] The process involving heating of rubber with sulphur is called _____.

- (A) galvanization (B) vulcanization (C) bessemerization (D) sulphonation

81. [BT:C] Ethyl alcohol on oxidation with $\text{K}_2\text{Cr}_2\text{O}_7$ gives _____.

- (A) acetic acid (B) acetaldehyde (C) formaldehyde (D) formic acid

82. [BT:K] Lucas test is performed for _____.

- (A) amines (B) alcohols (C) ethers (D) alkyl halides

83. [BT:C] Ethene is obtained from ethyl bromide by _____.

- (A) Nucleophilic substitution (B) hydrolysis (C) simple heating
(D) dehydrohalogenation

84. [BT:C] Which of the following is an example of elimination reaction?

- (A) Chlorination of methane (B) Dehydration of ethanol
(C) Nitration of benzene (D) Hydroxylation of ethylene

85. [BT:K]Which of the following is an aromatic hydrocarbon?
(A) cyclo pentene (B) cyclo hexane (C) naphthalene (D) 1,3-butadiene
86. [BT:K]According to Werner's theory the secondary valencies of a central metal atom correspond to its_____.
(A) oxidation state (B) coordination number (C) sum of the two
(D) none of these
87. [BT:C]Most common oxidation states shown by cerium are_____.
(A) +2,+4 (B) +3,+4 (C) +3,+5 (D) +2,+3
- 88.[BT:K].Quartz is the crystalline variety of
(A) Si (B) SiO₂ (C) Na₂SiO₃ (D) SiC
- 89.[BT:K].Heavy water is used in atomic reactor as_____.
(A) coolant (B) moderator (C) both coolant and moderator
(D) neither coolant nor moderator
90. [BT:C]The main function of roasting is_____.
(A) reduction (B) oxidation (C) concentration (D) separation
91. [BT:A]The shortest C-C bond distance is found in_____.
(A) Diamond (B) Ethane (C) Benzene (D) Acetylene
92. [BT:K]Which of the following has the largest radius?
(A) K⁺ (B) Cl⁻ (C) O²⁻ (D) Cr³⁺
93. [BT:C].The principal and azimuthal quantum number of electrons in 4f orbitals are_____.
(A) 4,2 (B) 4,4 (C) 4,3 (D) 3,4

94. [BT:K] Which of the following indicates the charge on colloidal particles?
 (A) Brownian movement (B) electrophoresis (C) electrolysis (D) tyndall effect
95. [BT:C] Effect of temperature on reaction rate is given by _____.
 (A) Clausius-Clapeyron equation (B) Gibbs-Helmholtz equation
 (C) Arrhenius equation (D) Kirchhoff's equation
96. [BT:C] Which of the following has highest value of standard reduction potential
 (A) F_2 (B) Cl_2 (C) Br_2 (D) I_2
97. [BT:A] BF_3 is _____.
 (A) Lewis acid (B) Lewis base (C) Bronsted acid (D) Arrhenius acid
98. [BT:K] For the manufacture of ammonia by the reaction $N_2 + 3H_2 \rightleftharpoons 2NH_3 + 21.9 \text{ kcal}$ the favourable condition are _____.
 (A) low temperature, low pressure and catalyst
 (B) low temperature, high pressure and catalyst
 (C) high temperature, low pressure and catalyst
 (D) high temperature, high pressure and catalyst
99. [BT:C] ΔH neutralization is always _____.
 (A) positive (B) negative (C) zero (D) can be positive or negative
100. [BT:C] The molar solution of sulphuric acid is equal to _____.
 (A) N solution (B) 2 N solution (C) N/2 solution (D) 3 N solution

Answers (Chemistry)

76. (D) 77. (D) 78. (A) 79. (C) 80. (B) 81. (A) 82. (B) 83. (D) 84. (B) 85. (C)
 86. (B) 87. (B) 88. (B) 89. (C) 90. (B) 91. (D) 92. (C) 93. (C) 94. (B) 95. (C)
 96. (A) 97. (A) 98. (B) 99. (B) 100. (B)