

NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Which inorganic precipitate acts as semipermeable membrane?	A. Calcium sulphate B. Barium oxalate C. Nickel phosphate D. Copper ferrocyanide
2	Which of the following imparts violet colouration to the non-luminous flame of Bunsen burner?	A. NaCl B. BaCl ₂ C. CaCl ₂ D. KCl
3	The vapour density of a gas is 11.2 The volume occupied by 11.2 g of this gas at N.T.P is	A. 22.4 liters B. 11.2 liters C. 1 liter D. 2.24 liters
4	Which of the following alkali metal hydroxides is the strongest base?	A. LiOH B. NaOH C. KOH D. CaOH
5	Alum is not used	A. As a mordant in dyeing B. As an insecticide C. In purification of water D. In tanning of leather
6	Propyne on hydrolysis in presence of H ₂ SO ₄ and HgSO ₄ gives	A. Acetaldehyde B. Actone C. Formaldehyde D. None
7	Which one is not usually used for the crystallization	A. Acetone B. Acetic acid C. Sulphuric acid D. Chloroform
8	The bond angle H - O - H in ice is closest to	A. 120° , 28° B. 60° C. 90° D. 109°
9	The structure of XeF ₆	A. Distorted octahedral B. Pyramidal C. Tetrahedral D. None of the above
10	The movement of solvent molecules through a semipermeable membrane is called	A. Electrolysis B. Electrophoresis C. Osmosis D. Cataphoresis
11	Which one of the following compounds does not exist?	A. NCl ₅ B. AsF ₅ C. SbCl ₅ D. PF ₅
12	The substance used as a smoke screen in warfare is	A. SiCl ₄ B. PH ₃ C. PCI ₅ D. Acetylene
13	The number of atoms contained in 11.2 L of SO ₂ at S.T.P are	A. $3/2 \times 6.02 \times 10^{23}$ B. $2 \times 6.02 \times 10^{23}$ C. 6.02×10^{23} D. $4 \times 6.02 \times 10^{23}$
14	The addition of HBr is easiest with	A. CH ₂ = CHCl B. CICH = CHCl C. CH ₃ - CH = CH ₂ D. (CH₃)₂C = CH₂
		A. Bismuthio is

15	BiCl ₃ on hydrolysis forms a white precipitate of	acid B. Bismuth oxychloride C. Bismuth pentachloride D. Bismuth hydroxide
16	Isopropyl alcohol on oxidation forms	A. Acetone B. Ether C. Ethylene D. Acetaldehyde
17	Which of the following statement regarding catalyst is not true?	A. A catalyst remains unchanged in composition and quantity at the end of the reaction B. A catalyst can initiate a reaction C. A catalyst does not alter the equilibrium in a reversible reaction D. Catalysts are sometimes very specific in respect of reaction
18	With increasing principle quantum number the energy difference between adjacent energy levels in H atom	A. Decreases B. Increases C. Remains constant D. Decreases for low value of Z and increases for higher value of Z.
19	Which one of the following has the lowest boiling point?	A. B B. Al C. Ga D. Ti
20	Al is more reactive than Fe but Al is less easily corroded than Fe Because	A. It is a noble metal B. Oxygen forms a protective reaction easily with water C. Iron undergoes reaction easily with water D. Fe forms mono and divalent ions.