NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	On heating acetaldehyde with ammonical silver nitrate solution we get	A. CH₃OH B. Silver acetate C. HCHO D. Silver mirror
2	The relative rates of diffusion of a gas (Mol, wt. - 98) as compared to hydrogen will be	A. 1/7 B. 1/5 C. 1/4 D. 1
3	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.
4	In which molecule carbon atom is sp^2 hybridized	A. CH₄ B. C₂H₄ C. C₂H₂ D. None of the above
5	Which of the following with aqueous KOH will give acetaldehyde?	A. 1,2-Dichloroethane B. 1, 1-Dichloroethane C. Chloroacetic acid D. Ethyl chloride
6	The number of oxygen atoms in 4.4 g of CO_2 is approximately	A. 1.2 x 10²³ B. 6 x 10²² C. 6 x 10²³ D. 12 x 10²³
7	Ethanol containing some methanol is called	A. Absolute spirit B. Rectified spriit C. Power alcohol D. Methylated spirit
8	A current of 9.65 ampere flowing for 10 minutes deposits 3.0 g of the metal which is monovalent the atomic mass of the metal is	A. 10 B. 50 C. 30 D. 96.5
9	A chemical reaction A B is said to be in equilibrium when	A. Complete conversion of A to B has taken place B. Conversion of A to B is only 50% complete C. Only 10% conversion of A to B has taken place D. The rate of transformation of A to B is just equal to rate of transformation of B to A in the system
10	Which of the following is different from the other three oxides?	A. MgO B. SnO C. ZnO D. Cr₂O₃
11	The weight of 11.2 liters of CO_2 at S.T.P. would be	A. 88 g B. 44 g C. 32 g D. 22 g
12	Which has maximum protein content?	A. Ground nut B. Cow milk C. Egg D. Wheat
13	Phosphide ion has the electronic structure similar to that of	A. Nitride ion B. Fluoride ion C. Sodium ion D. Chloride ion
14	The movement of solvent molecules through a semipermeable membrane is called	A. Electrolysis B. Electrophoresis C. Osmosis

		D. Cataphoresis
15	In a crystal a ≠ b ≠ c, a = γ = 90° and β ≠ 90°, it is	A. Monoclinic B. Rhombic C. Trigonal D. Tetragonal
16	Acetic anhydride is obtained form acetyl chloride by the reaction of	A. P₂O₅ B. H₂SO₄ C. CH₃COONa D. CH₃COCH₃
17	Bragg's law is given by equation	A. n λ = 2 θ sin θ B. n λ = 2 d sin θ C. 2nλ = d sin θ D. nλ = 1/2 d sin θ
18	Wt. of 112 ml of oxygen at NTP on liquefaction would be	A. 0.32 g B. 0.64 g C. 0.16 g D. 0.96 g
19	Which of the following process is used to separate insoluble particles from liquids?	A. Separation B. Filtration C. Crystallization D. Condensation
20	Which one is not a pollutant normally?	A. Hydrocarbons B. Carbon dioxide C. Carbon monoxide D. Sulphur dioxide