NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Cheif air pollutant which is likely to deplete ozone layer	A. Sulphure dioxide B. Carbon dioxide C. Carbon dioxide D. Nitrogen oxides and chloro fluorocarbons
2	Which quantum number is sufficient to describe the electron is hydrogen atom?	A. / B. n C. m D. s
3	Detergents are	A. Synthetic products B. Natural products C. Both A and B D. None of the above
4	Reaction of acids with alcohols is also known as	A. Esterification B. Saponification C. Alkalization D. None
5	The carbon atoms in calcium carbide are held by	A. Ionic bonds B. 2 sigma bonds C. 2 covalent one co-ordinate bond D. 2 π and one σ bond
6	The substance used as a smoke screen in warfare is	A. SiCl₄ B. PH₃ C. PCl₅ D. Acetylene
7	The main structure features of proteins is	A. An ester linkage B. An ether linkage C. The peptide linkage D. All
8	The following has zero valency	A. Na B. Be C. Al D. Kr
9	The treatment of benzene with isobutene in the presence of sulphuric acid give	A. Isobutyl benzene B. Tert-Butyl benzene C. n-Butyl benzene D. no reaction
10	The valence orbital configuration of an element with atomic number 23 is	A. 3d⁵ B. 3d³, 4s² C. 3d³,4s¹,4p¹ D. 3d²,4s²,4p¹
11	The structure of XeF_6	A. Distorted octahedral B. Pyramidal C. Tetrahedral D. None of the above
		A. Liter sec⁻¹

12	The unit of rate constant for a zero order reaction is	B. Liter mol⁻¹sec⁻¹ C. Mol liter⁻¹sec⁻¹ D. Mol sec⁻¹
13	Which is true for an element R present in group 13 of the periodic table?	A. It is a gas at room temperature B. It has oxidation state of +4 C. It forms R₂O₃ D. It forms RX₂
14	The equilibrium constant in a reversible chemical reaction at a given temperature	A. Depends on the initial concentration of the reactants B. Depends on the concentration of one of the products at equilibrium C. Does not depend on the initial concentrations of recatants D. Is not characteristic of the reaction
15	Hybridization explain the------- of orbitals	A. Type of Bonding B. Shapes C. Shape and Type of bonding D. None of above
16	Mark the smallest atom	A. F B. Cl C. Br D. I
17	The number of atoms contained in 11.2 L of SO_2 at S.T.P are	A. 3/2 x 6.02 x 10²³ B. 2 x 6.02 x 10²³ C. 6.02 x 10²³ D. 4 x 6.02 x 10²³
18	Maximum number of active hydrogens are present in	A. Acetic-acid B. Glycerol C. Methane D. Methanol
19	Which of the following method is most appropriate for the manufacture of methane?	A. By reduction of CH2CL2 B. Wurtz reaction C. Liquification of natural gas D. None of these
20	Ozone is not	A. An allotrope B. A powerful oxidizing agent C. Paramagnetic D. A bent molecule