NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	The maximum number of electrons in a subshell for which / = 3 is	A. 14 B. 10 C. 8 D. 4
2	Dilute hydrochloric acid solution cannot be concentrated by boiling beyond	A. 11% B. 33% C. 44% D. 22%
3	Ionic solids with defects contain	A. Equal number of cation and anion vacancies B. Interstitial anions and anion vacancies C. Cation vacancies only D. Cation vacancies and interstitial cations
4	Which is not a colligative property?	A. Osmotic pressure B. Lowering of vapour pressure C. Depression of freezing point D. Elevation of boiling point
5	Which of the following fluorides of xenon in impossible?	A. XeF₂ B. XeF₃ C. XeF₄ D. XeF₆
6	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
7	Reaction of acids with alcohols is also known as	A. Esterification B. Saponification C. Alkalization D. None
8	The dimension of rate constant of a second order reaction involves	A. Neither time nor concentration B. Only time C. Time and concentration D. Time and square of concentration
9	Which of the following has least mass?	A. 2 gram atom of nitrogen B. 3 x 10²³ atoms of C C. 1 mole of S D. 7.0 g of Ag.
10	The rate at which a substance reacts depends on its	A. Atomic weight B. Equivalent weight C. Molecular weight D. Active mass
11	Potassium is kept in	A. Water B. Ammonia C. alcohol D. Kerosene E.
12	Ethyl chloride on treatment with aqueous alkali gives	A. Ethane B. Ethene C. Ethanal D. Ethanol
13	Among alkali metal salts,the lithium salts are the poorest conductors of electricity in aqueous solution because of	A. Easy diffusion of Li⁺ ions B. Lower ability of Li⁺ ions to polarize water molecules C. Lowest charge to radius ratio D. Higher degree of hydration of Li⁺ ions.
14	Which of the following is different from the other three oxides?	A. MgO B. SnO

		C. ZnO D. Cr₂O₃
15	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
16	Which one of the following has the lowest boiling point?	A. B B. Al C. Ga D. Ti
17	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.
18	The main structure features of proteins is	A. An ester linkage B. An ether linkage C. The peptide linkage D. All
19	The formula of nitre is	A. KNO₃ B. NaNO₃ C. NaCl D. Na₂CO₃
20	When electrons revolve is stationary orbits	A. There is no change in energy level B. They vecome stationary C. They are gaining kinetic energy D. There is increase in energy