

NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Which of the following is acidic?	A. SO ₃ B. N ₂ O C. BeO D. HgO
2	When electricity is passed through molten $Al_2O_3 + Na_3AlF_6$ and 13.5 gms Al are deposited, the number of faraday must be	A. 0.5 B. 1.0 C. 1.5 D. 2.0
3	The rate of a reaction can be increased in general by all the factors except by	A. Using a catalyst B. Increasing temperature C. Increasing the activation energy D. Increasing the conc. of reactants
4	In Friedal-Craft's alkylation besides AlCl ₃ the other reactants are	A. <chem>C6H6 + NH3</chem> B. <chem>C6H6 + CH4</chem> C. <chem>C6H6 + CH3Cl</chem> D. <chem>C6H6 + CH3COCl</chem>
5	A cell constant is generally found by measuring the conductivity of aqueous solution of	A. BaCl ₂ B. KCl C. NaCl D. MgCl ₂
6	Which quantum number is sufficient to describe the electron in hydrogen atom?	A. l B. n C. m D. s
7	Which of the following alkali metal hydroxides is the strongest base?	A. LiOH B. NaOH C. KOH D. CaOH
8	In which of the following elements +1 oxidation state is more stable than +3	A. B B. Al C. Ga D. Ti
9	Alum is not used	A. As a mordant in dyeing B. As an insecticide C. In purification of water D. In tanning of leather
10	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 reactants D. Is not characteristic of the reaction
11	Which of the following belongs to the halogen family?	A. Francium B. Polonium C. Radium D. Astatine
12	Octane number can be changed by	A. Isomerisation B. Alkylation C. Cyclisation D. All of these
13	The kinetic theory of gases predicts that total kinetic energy of a gaseous assembly depends on	A. Pressure of the gas B. Temperature of the gas C. Volume of the gas D. Pressure, temperature and volume

		or the gas
14	The digestion of fats in the intestines is aided by	A. Diffusion B. Protection C. Peptization D. Emulsification
15	Which one is not a pollutant normally?	A. Hydrocarbons B. Carbon dioxide C. Carbon monoxide D. Sulphur dioxide
16	The percentage of oxygen in NaOH is	A. 40 B. 60 C. 8 D. 10
17	The structure of XeF_6	A. Distorted octahedral B. Pyramidal C. Tetrahedral D. None of the above
18	Covalent compounds are soluble in	A. Polar solvents B. Non-polar solvents C. Concentrated acids D. All solvents
19	Which one of the following has the lowest boiling point?	A. B B. Al C. Ga D. Ti
20	Which is the most volatile compound?	A. HI B. HCl C. HBr D. HF