

NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Which of the following with aqueous KOH will give acetaldehyde?	A. 1,2-Dichloroethane B. 1, 1-Dichloroethane C. Chloroacetic acid D. Ethyl chloride
2	The relative rate of diffusion of a gas (molecular wright - 128) as compared to oxygen is	A. 2 times B. 1/4 C. 1/8 D. 1/2
3	For preparing an alkane, a concentrated aqueous solution of sodium or potassium salt of saturated carboxylic acid is subjected to	A. Hydrolysis B. Oxidation C. Hydrogenation D. Electrolysus
4	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 dose not alter the equilibrium in a reversible reaction D. Catalysts are sometimes very specific in respect of reaction
5	Which of the following cannot be produced by acidic dehydration of alcohols?	A. Ethers B. Aldehyde C. Alkyl Hydrogen sulphate D. Alkene
6	Addition of iron filling to CuSO ₄ solution caused precipitation of Cu awing to the	A. Reduction of Cu ²⁺ B. Oxidation of Cu ²⁺ C. Reduction of Fe D. Reduction of Fe ³⁺
7	Which of the following substances is used as an antiknock compound?	A. Tetraethyl lead B. Lead tetrachloride C. Lead acetate D. Ethyl acetate
8	When pressure is applied to the equilibrium system lce Water Which of the following phenomenon will happen?	A. More ice will be formed B. Water will evaporate C. More water will be formed D. Equilibrium will not be formed
9	The addition of HBr is easiest with	A. CH2 = CHCI B. CICH = CHCI C. CH3 - CH = CH2 D. (CH3)2 C = CH2
10	Phosphide ion has the electronic structure similar to that of	A. Nitride ion B. Fluoride ion C. Sodium ion D. Chloride ion
11	Which of the following transition metal ions will have definite value of magnetic moment?	A. Sc ³⁺ B. Ti ³⁺ C. Cu ⁺ D. Zn ²⁺
12	The equilibrium $\operatorname{Cr_2O^{2-}_7}\ 2\operatorname{CrO^2_4}$ is shifted to right in	A. An acidic medium B. A basic medium C. A neutral medium D. It does not exist
13	If a salt bridge is removed between the two half cells the voltage	A. Drops to zero B. Does not change C. Increases gradually D. Increases rapidly
14	Covalent compounds are soluble in	A. Polar solvents B. Non-polar solvents

		C. Concentrated acids D. All solvents
15	The digestion of fats in the intestines is aided by	A. DiffusionB. ProtectionC. PeptizationD. Emulsification
16	Fluorine does not show positive oxidation states due to the absence of	A. d-orbitals B. s-orbitals C. p-orbitals D. None
17	The heats evolved in combustion of rhombic and monoclinic sulphur are - 70960 and - 71030 cal mol ⁻¹ respectively what will be heat of conversion of rhombic sulphur ti monoclinic?	A. 70960 calories B. 71030 calories C70 calories D. +70 calories
18	Hybridization explain the of orbitals	A. Type of Bonding B. Shapes C. Shape and Type of bonding D. None of above
19	The osmotic pressure of solution increases if	A. Temperature is decreased B. Solution constant is increased C. Number of solute molecules are increased D. Volume is increased
20	Benzene + Ozone \rightarrow Y. in this sequence Y is	A. Benzene monoozonide B. Benzene diozonide C. Benzene triozonide D. Succinic acid