

NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Which of the following is directly related to Qualitative analysis?	A. Identification B. Separation C. Measurement D. Calculation
2	Which species represents the electrophile in aromatic nitrotaion?	A. $\text{NO}^{\text{+}}$ B. $\text{NO}_2^{\text{+}}$ C. NO_2 D. $\text{NO}^{\text{-}}$
3	Calcium acetate when dry distilled gives	A. Formaldehyde B. Acetaldehyde C. Acetone D. Acetic anhydride
4	Oleum is	A. Castor oil B. Oil of vitriol C. Fuming of H_2SO_4 D. None of them
5	In a reversible chemical reaction having two reactants in equilibrium if the concentration of the reactants are doubled then the equilibrium constant will	A. Also be doubled B. Be halved C. Becomes one fourth D. Remains the same
6	What quantity of limestone (CaCO_3) on heating will give 56 kg of CaO ?	A. 1000 kg B. 56 kg C. 44 kg D. 100kg
7	Cyclone collector is used for minimizing	A. Radioactive pollution B. Air pollution C. Noise pollution D. Water pollution
8	How many kinds of space lattices are possible in a crystal?	A. 23 B. 7 C. 230 D. 14
9	Benzene is obtained by fractional distillation of	A. Heavy oil B. Anthracene oil C. Middle oil D. Light oil
10	The reference calomel electrode is made from which of the following?	A. ZnCl_2 B. CuSO_4 C. Hg_2Cl_2 D. HgCl_2
11	How many moles of Helium gas occupy 22.4 L at 0°C at 1 atm. Pressure?	A. 0.11 B. 0.90 C. 1.0 D. 1.11
12	The freezing point of 1 molal NaCl solution assuming NaCl to be 100% dissociated in water in	A. -1.86°C B. -3.72°C C. $+1.86^\circ\text{C}$ D. $+3.72^\circ\text{C}$
13	The equilibrium $\text{Cr}_2\text{O}_7^{2-} \rightleftharpoons 2\text{CrO}_4^{2-}$ is shifted to right in	A. An acidic medium B. A basic medium C. A neutral medium D. It does not exist
14	The movement of solvent molecules through a semipermeable membrane is called	A. Electrolysis B. Electrophoresis C. Osmosis D. Cataphoresis
		A. Type of Bonding

15	Hybridization explain the----- of orbitals	B. Shapes C. Shape and Type of bonding D. None of above
16	For the reaction $2A(g) + B(g) \rightleftharpoons 3C(g) + D(g)$ two moles each of A and B were taken into a flask The following must always be true when the system attained equilibrium	A. $[A] = [B]$ B. $[A] \geq [B]$ C. $[B] = [C]$ D. $[A] \geq [B]$
17	Which of the following belongs to the halogen family?	A. Francium B. Polonium C. Radium D. Astatine
18	Galena is an ore of	A. Gallium B. Lead C. Tin D. Germanium
19	Natural fertilizer from plants and animals provide nitrogen	A. 1.5 kg B. 3.0 kg C. 4.5 kg D. 6 kg
20	Carbon atom holding halogen in aryl halides is	A. sp^2 -hybridised B. sp C. sp^3 -hybridised D. $d - sp^3$ -hybridised