

NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Which of the following has least mass?	A. 2 gram atom of nitrogen B. 3 x 10 ²³ atoms of C C. 1 mole of S D. 7.0 g of Ag.
2	When KClO $_3$ is heated it decomposes into KCl and O $_2$ if some MnO $_2$ is added the reaction goes much faster because	A. MnO ₂ decomposes to give O ₂ B. MnO ₂ provides heat by reacting C. Better contact is provided by MnO ₂ D. MnO ₂ acts as a catalyst
3	Which of the following is a colligative property?	A. Melting point B. Osmotic pressure C. Freezing point D. Sublimation temperature
4	The percentage of nitrogen in urea is	A. 46 B. 60 C. 70 D. 80
5	The reaction/method that does not give an alkane is	A. Catalytic hydrogenation of alkanes B. Wurtz reaction C. Hydrolysis of alkyl magnesium bromide D. Dehydrohalogenation of an alkyl halid.
6	Vitamin A is present in	A. Liver B. Milk C. Green vegetables D. All
7	A clathrate may be defined as a	A. Cage compound B. Liquid crystal C. Mixture D. Solid solution
8	Which quantum number is sufficient to describe the electron is hydrogen atom?	A. / B. n C. m D. s
9	On heating acetaldehyde with ammonical silver nitrate solution we get	A. CH ₃ OH B. Silver acetate C. HCHO D. Silver mirror
10	Which one of the following has the lowest boiling point?	A. B B. Al C. Ga D. Ti
11	The freezing point of 1 molal NaCl solution assuming NaCl to be 100% dissociated in water in	A1.86°C B3.72°C C. +1.86°C D. +3.72°C
12	Which of the following is directly related to Qualitative analysis?	A. Identification B. Separation C. Measurement D. Calculation
13	Fertilizer are made by	A. Nature only B. Artificial methods only C. Both artificial and natural methods D. None of the above

14	All the naturally occurring processes proceed spontaneously in a direction which lead to	A. Decrease of entropy B. Increase of enthalpy C. Increase of free energy D. Decrease of free energy
15	The order of reactivity of halogens in aliphatic substitution reactions is	A. Br2 > Cl2 > F2 B. Cl2 > Br2 > F2 C. Cl2 Cl2 > Br2 D. F2 > Br2 > Cl2
16	Which of the following is acidic?	A. SO ₃ B. N ₂ O C. BeO D. HgO
17	The disaccharide present in milk is	A. Sucrose B. Maltose C. Lactose D. Cellobiose
18	The weight of 11.2 liters of CO ₂ at S.T.P. would be	A. 88 g B. 44 g C. 32 g D. 22 g
19	Octane number is zero for	A. n-Heptane B. Isooctane C. n-Hexane D. Isoheptane
20	2 g oxygen contains number of atoms equal to that in	A. 0.5 g of hydrogen B. 4 g of sulphur C. 7 g of nitrogen D. 2.3 g of sodium