

NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Which one of the following has the lowest boiling point?	<p>A. B</p> <p>B. Al</p> <p>C. Ga</p> <p>D. Ti</p>
2	The most reactive compound for electrophilic nitration will be	<p>A. Benzyl chloride</p> <p>B. Benzoic acid</p> <p>C. Nitrobenzene</p> <p>D. Chlorobenzene</p>
3	Which of the following reagent cannot be used for preparing alkyl chloride from alcohol?	<p>A. $\text{HCl} + \text{anhyd. ZnCl}_2$</p> <p>B. NaCl</p> <p>C. PCl_5</p> <p>D. SOCl_2</p>
4	Saturated solution of NaCl on heating becomes	<p>A. Super saturated</p> <p>B. Unsaturated</p> <p>C. Remains saturated</p> <p>D. None</p>
5	Sodium thiosulfate is used in photography because of its	<p>A. Oxidizing behaviour</p> <p>B. Reducing behaviour</p> <p>C. Complexing behaviour</p> <p>D. Photochemical behaviour</p>
6	The mass of the neutron is of the order of	<p>A. 10^{-23} kg</p> <p>B. 10^{-24} kg</p> <p>C. 10^{-26} kg</p> <p>D. 10^{-27} kg</p>
7	The rate of reaction between A and B increases by a factor of 100 when the concentration with respect to A is increased 10 folds the order of reaction w.r.t A is	<p>A. 10</p> <p>B. 1</p> <p>C. 4</p> <p>D. 2</p>
8	Which one of the halogen acid is a liquid?	<p>A. HF</p> <p>B. HCl</p> <p>C. HBr</p> <p>D. HI</p>
9	Fertilizer are made by	<p>A. Nature only</p> <p>B. Artificial methods only</p> <p>C. Both artificial and natural methods</p> <p>D. None of the above</p>
10	If N_A is Avogadro's number then number of valence electrons in 4.2 g of nitride ions N^{3-} is	<p>A. $2.4 N_A$</p> <p>B. $4.2 N_A$</p> <p>C. $1.6 N_A$</p> <p>D. $3.2 N_A$</p>

11	In crystal structure of sodium chloride the arrangement of Cl ⁻ ions is	A. Fee B. Both fee and bcc C. Bee D. None of these
12	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
13	Mark the smallest atom	A. F B. Cl C. Br D. I
14	The carbon atoms in calcium carbide are held by	A. Ionic bonds B. 2 sigma bonds C. 2 covalent one co-ordinate bond D. 2 π and one σ bond
15	Which of the following has greatest tendency to lose electron?	A. F B. Fr C. S D. Be
16	Which one is primary alcohol?	A. Buten-2-ol B. Propan-2-ol C. Butane-1-ol D. 2,3-Dimethylhexane-4-ol
17	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
18	Which one of the following elements occurs free in nature?	A. N_2 B. P C. As D. Sb
19	Which inorganic precipitate acts as semipermeable membrane?	A. Calcium sulphate B. Barium oxalate C. Nickel phosphate D. Copper ferrocyanide
20	Which of the following method is most appropriate for the manufacture of methane?	A. By reduction of CH ₂ Cl ₂ B. Wurtz reaction C. Liquification of natural gas D. None of these