

NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Octane number is zero for	A. n-Heptane B. Isooctane C. n-Hexane D. Isoheptane
2	Which of the following alcohols cannot be produced by treatment of aldehydes or ketones with NaBH_4 or LiAlH_4 ?	A. 14.4444465637207px;">14.4444465637207px; Propanol B. 14.4444465637207px;">14.4444465637207px; Propanol C. 14.4444465637207px;">14.4444465637207px; 2-Methyl-2-propanol D. 14.4444465637207px;">14.4444465637207px; Ethanol
3	Which of the following method is most appropriate for the manufacture of methane?	A. By reduction of CH_2Cl_2 B. Wurtz reaction C. Liquification of natural gas D. None of these
4	1 mole of CH_4 contains	A. 6.02×10^{23} atoms of H B. 4 g-atom of hydrogen C. 1.81×10^{23} molecules of CH_4 D. 3.0 g of carbon
5	Which of the following has least mass?	A. 2 gram atom of nitrogen B. 3×10^{23} atoms of C C. 1 mole of S D. 7.0 g of Ag.
6	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
7	Sodium thiosulfate is used in photography because of its	A. 14.4444465637207px; Oxidizing behaviour B. 14.4444465637207px; Reducing behaviour C. 14.4444465637207px; Complexing behaviour D. 14.4444465637207px; Photochemical behaviour
8	Addition of iron filling to CuSO_4 solution caused precipitation of Cu owing to the	A. Reduction of Cu^{2+} B. Oxidation of Cu^{2+} C. Reduction of Fe D. Reduction of Fe^{3+}
9	The following has zero valency	A. Na B. Be C. Al D. Kr
10	In which of the following elements +1 oxidation state is more stable than +3	A. B B. Al C. Ga D. Ti
11	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
		A. Sp ² -hybridised

12	Carbon atom holding halogen in aryl halides is	<p>B. Sp 3 hybridised</p> <p>C. Sp 3 hybridised</p> <p>D. Sp 3 d - hybridised</p>
13	Water (H ₂ O) is liquid while hydrogen sulphide (H ₂ S) is a gas because	<p>A. Water has higher molecular weight</p> <p>B. Hydrogen sulphide is a weak acid</p> <p>C. Sulphur has high electronegativity than oxygen</p> <p>D. Water molecules associate through hydrogen bonding.</p>
14	The number of atoms in 0.0004 g of magnesium is close to	<p>A. 24</p> <p>B. 2×10^{20}</p> <p>C. 10^{20}</p> <p>D. 6.02×10^{23}</p>
15	The reference calomel electrode is made from which of the following?	<p>A. ZnCl₂</p> <p>B. CuSO₄</p> <p>C. HgCl₂</p> <p>D. HgCl₂</p>
16	The alkali metal which is liquid at 15°C is	<p>A. K</p> <p>B. Cs</p> <p>C. Na</p> <p>D. None</p>
17	The movement of solvent molecules through a semipermeable membrane is called	<p>A. Electrolysis</p> <p>B. Electrophoresis</p> <p>C. Osmosis</p> <p>D. Cataphoresis</p>
18	Propyne on hydrolysis in presence of H ₂ SO ₄ and HgSO ₄ gives	<p>A. Acetaldehyde</p> <p>B. Acetone</p> <p>C. Formaldehyde</p> <p>D. None</p>
19	The disaccharide present in milk is	<p>A. Sucrose</p> <p>B. Maltose</p> <p>C. Lactose</p> <p>D. Cellobiose</p>
20	During the folding of filter paper the apex form angle of about	<p>A. 80°</p> <p>B. 60°</p> <p>C. 180°</p> <p>D. 90°</p>