

NAT I Medical Chemistry

| Sr | Questions | Answers Choice |
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| 1 | Which of the following has greatest reducing power? | A. HI B. Hbr C. HCl D. HI |
| 2 | The main structure features of proteins is | A. An ester linkage B. An ether linkage C. The peptide linkage D. All |
| 3 | The alkali metal which is liquid at 15°C is | A. K B. Cs C. Na D. None |
| 4 | Heating a mixture of sodium benzoate and soda lime gives | A. Methane B. Benzene C. Sodium benzene D. Calcium benzoate |
| 5 | Which of the following cannot be produced by acidic dehydration of alcohols? | A. Ethers B. Aldehyde C. Alkyl Hydrogen sulphate D. Alkene |
| 6 | 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 |
| 7 | Potassium crystallizes with a | A. Orthogonal lattice B. Cubic lattice C. Triclinic D. Ortho rhombic lattice |
| 8 | Which one is primary alcohol? | A. Buten-2-ol B. Propan-2-ol C. Butane-1-ol D. 2,3-Dimethylhexane-4-ol |
| 9 | Which of the following statements is most appropriate about effective nuclear charge? It depends upon | A. The shielding constant B. The atomic number C. The charge on the nucleus D. Both the nuclear charge and the shielding constant |
| 10 | In the manufacture of iron from haematite, limestone is added to act as. | A. Flux B. A reducing C. Slag D. An oxidizing agent. |
| 11 | Enzymes are | A. Proteins B. Mineral C. Oils D. Fatty acids |
| 12 | Gooch crucible is used for the filtration of precipitates having | A. High solubility B. High concentration C. High ignition temperature D. Low temperature |
| 13 | At room temperature formaldehyde is | A. Gas B. Liquid C. Solid |

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| | | D. None of the above |
| 14 | Ethanol containing some methanol is called | A. Absolute spirit B. Rectified spirit C. Power alcohol D. Methylated spirit |
| 15 | Carbon monoxide is pollutant as it | A. Inactivates nerves B. Inhibits glycolysis C. Combines with oxygen D. Combines with hemoglobin |
| 16 | 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. |
| 17 | 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 |
| 18 | Which of the following elements is most electronegative? | A. Oxygen B. Chlorine C. Nitrogen D. Fluorine |
| 19 | Wt. of 112 ml of oxygen at NTP on liquefaction would be | A. 0.32 g B. 0.64 g C. 0.16 g D. 0.96 g |
| 20 | Fluorine does not show positive oxidation states due to the absence of | A. d-orbitals B. s-orbitals C. p-orbitals D. None |