

## Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Reaction of ethylamine with chloroform in alcoholic KOH produces	A. $\text{CH}_3\text{OH}$ B. $\text{CH}_3\text{NC}$ C. $\text{C}_2\text{H}_5\text{NC}$ D. $\text{C}_2\text{H}_5\text{CN}$
2	For most of the chemical reaction the rate of reaction	A. Increases as the reaction proceeds B. Decreases as the reaction proceeds C. May increase or decrease during the reaction D. Remains constant as the reaction
3	If $N_A$ is Avogadro's number then number of valence electrons in 4.2 g of nitride ions $\text{N}^{3-}$ is	A. $2.4 N_A$ B. $4.2 N_A$ C. $1.6 N_A$ D. $3.2 N_A$
4	Variable valency is generally exhibited by	A. Normal elements B. Transition elements C. Metallic elements D. None of these
5	Which of the following method is most appropriate for the manufacture of methane?	A. By reduction of $\text{CH}_2\text{Cl}_2$ B. Wurtz reaction C. Liquefaction of natural gas D. None of these
6	Hydrolytic conversion of sucrose into glucose and fructose is known as	A. Induction B. Inversion C. Insertion D. Inhibition
7	Which one of the following has the lowest boiling point?	A. $\text{B}$ B. $\text{Al}$ C. $\text{Ga}$ D. $\text{Ti}$
8	Which of the following has least mass?	A. 2 gram atom of nitrogen B. $3 \times 10^{23}$ atoms of C C. 1 mole of S D. 7.0 g of Ag.
9	Water ( $\text{H}_2\text{O}$ ) is liquid while hydrogen sulphide ( $\text{H}_2\text{S}$ ) is a gas because	A. Water has higher molecular weight B. Hydrogen sulphide is a weak acid C. Sulphur has high electronegativity than oxygen D. Water molecules associate through hydrogen bonding.
10	The addition of HBr is easiest with	A. $\text{CH}_2 = \text{CHCl}$ B. $\text{ClCH} = \text{CHCl}$ C. $\text{CH}_3 - \text{CH} = \text{CH}_2$ D. $(\text{CH}_3)_2\text{C} = \text{CH}_2$
11	Which of the following substances is used as an antiknock compound?	A. Tetraethyl lead B. Lead tetrachloride C. Lead acetate D. Ethyl acetate
12	How many kinds of space lattices are possible in a crystal?	A. 23 B. 7 C. 230 D. 14

13	The essential component of organic compound is	A. O B. C C. P D. N
14	Hydrogen chloride molecule contains	A. Covalent bond B. Double bond C. Co-ordinate bond D. Electrovalent bond
15	The effect of increasing the pressure on the following equilibrium $2A + 3B \rightleftharpoons 3A + 2B$ is	A. Forward reaction is favoured B. Backward reaction is favoured C. No effect D. None of the above
16	A zero order reaction is one whose rate is independent of	A. Temperature of the reaction B. The concentration of the reactants C. The concentration of the products D. The material of the vessel in which the reaction is carried out
17	Inert pair effect plays an important role in case of	A. F B. Al C. Si D. Tl
18	Which of the following is not present in RNA?	A. Uracil B. Thymine C. Ribose D. Phosphate
19	A solution of sodium sulphate was electrolysed using some inert electrodes. The products at the electrodes are	A. $O_2$ , $H_2$ B. $O_2$ , Na C. $O_2$ , SO D. $O_2$ , S
20	Ascorbic acid is a chemical name of	A. Vitamin D B. Vitamin A C. Vitamin C D. Vitamin B <sub>6</sub>