

Note : Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1	Ethers show the phenomenon of : (A) Position isomerism (B) Functional group isomerism (C) Meta merism (D) Cis trans isomerism
2	Molecular formula of white phosphorus is : (A) P_4 (B) P_8 (C) P_3 (D) P_2
3	Which of the following reagents will react with both aldehydes and ketones : (A) Grignard reagent (B) Tollen's reagent (C) Fehling reagent (D) Benedicts reagent
4	Which three elements are needed for the healthy growth of plants : (A) N, S, P (B) N, Ca, P (C) N, P, K (D) N, K, C
5	The mineral ($CaSO_4 \cdot 2H_2O$) has a general name : (A) Gypsum (B) Dolomite (C) Calcite (D) Epsom salt
6	A single chloride free radical can destroy how many ozone molecules : (A) 100 (B) 100000 (C) 10000 (D) 10
7	Hydrogen bond is strongest between the molecules of : (A) HF (B) HCl (C) HBr (D) HI
8	Which compound is responsible for ozone depletion : (A) $CHCl_3$ (B) CH_2Cl_2 (C) CFC (D) CCl_4
9	Which one of the nitrogen base is not present in RNA : (A) Cytocine (B) Adenine (C) Thiamine (D) Uracil
10	Benzene cannot undergo : (A) Substitution reaction (B) Addition reaction (C) Oxidation reaction (D) Elimination reaction
11	The chief ore of aluminum is : (A) Na_2AlF_6 (B) $Al_2O_3 \cdot 2H_2O$ (C) Al_2O_3 (D) $Al_2O_3 \cdot H_2O$
12	Which of the following has maximum hydration energy : (A) Li^+ (B) Na^+ (C) K^+ (D) Mg^{+2}
13	Ether linkage is : (A) $\begin{array}{c} & & \\ -C & -N- & C- \\ & & \end{array}$ (B) $\begin{array}{c} & & \\ -C & -O- & C- \\ & & \end{array}$ (C) $\begin{array}{c} & & \\ -C & -S- & C- \\ & & \end{array}$ (D) $\begin{array}{c} & & \\ -C & =N- & C- \\ & & \end{array}$
14	The order of a typical S_N2 reaction is : (A) Zero (B) First (C) Second (D) Third
15	Coordination number of Pt in $[PtCl(NO_2)(NH_3)_4]$ is : (A) 2- (B) 4 (C) 1 (D) 6
16	Which compound is called a universal solvent : (A) H_2O (B) CH_3OH (C) C_2H_5OH (D) CH_3-O-CH_3
17	The solution of which acid is used for seasoning of food : (A) Formic acid (B) Acetic acid (C) Benzoic acid (D) Butanoic acid