

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	Mark the correct statement : (A) All lanthanides are present in the same group (B) All halogens are present in the same period (C) All the alkali metals are present in the same group (D) All the noble gases are present in the same period
2	Which ion will have maximum value of heat of hydration : (A) Na^+ (B) Cs^{+1} (C) Ba^{+2} (D) Mg^{+2}
3	Which element forms an ion with charge +3 : (A) Be (B) Al (C) C (D) Si
4	Laughing gas is chemically : (A) N_2O_4 (B) N_2O_2 (C) N_2O (D) NO
5	Which halogen will react spontaneously with Au(s) to produce Au^{3+} : (A) Br_2 (B) I_2 (C) Cl_2 (D) F_2
6	Chlorine heptaoxide reacts with water to form : (A) $HClO$ (B) $HClO_4$ (C) $HClO_3$ (D) $HClO_2$
7	The strength of binding energy of transition elements depends upon : (A) Number of electron pairs (B) Number of unpaired electrons (C) Number of neutrons (D) Number of protons
8	Select from the following which one is an alcohol : (A) CH_3-O-CH_3 (B) CH_3-CH_2-OH (C) CH_3COOH (D) CH_3-CH_2-Br
9	Formula of chloroform is : (A) CH_3Cl (B) CCl_4 (C) CH_2Cl_2 (D) $CHCl_3$
10	During nitration of benzene, the active nitrating agent is : (A) NO_3 (B) NO_2 (C) NO_2^+ (D) HNO_3
11	Elimination bimolecular reactions involve : (A) First order kinetics (B) Second order kinetics (C) Third order kinetics (D) Zero order kinetics
12	Ethanol can be converted into ethanoic acid by : (A) Hydrogenation (B) Oxidation (C) Hydration (D) Distillation
13	Which of the following reagents will react with both aldehydes and ketones : (A) Tollen's reagent (B) Fehling's solution (C) Grignard's reagent (D) Benedict solution
14	Ketones are prepared by the oxidation of : (A) Primary alcohol (B) Tertiary alcohol (C) Secondary alcohol (D) All of these
15	Which of the following is not a fatty acid : (A) Propanoic acid (B) Acetic acid (C) Phthalic acid (D) Butanoic acid
16	Rectified spirit contains ethyl alcohol : (A) 80% (B) 85% (C) 90% (D) 95%
17	Which is not a calcareous material : (A) Lime (B) Clay (C) Marble (D) Marine shell