

Inter (Part-II) 2021

Chemistry	Group-II	PAPER: II
Time: 20 Minutes	(OBJECTIVE TYPE)	Marks: 17

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- Which halogen will react spontaneously with Au(s) to produce Au^{3+} ?
- (a) Br_2 (b) I_2
(c) Cl_2 (d) F_2 ✓
- 2- Formula of chloroform is:
- (a) CH_3Cl (b) CCl_4
(c) CH_2Cl_2 (d) CHCl_3 ✓
- 3- Ketone are prepared by the oxidation of:
- (a) Primary alcohol (b) Tertiary alcohol
(c) Secondary alcohol ✓ (d) All of these
- 4- Which is not a calcareous material?
- (a) Lime (b) Clay ✓
(c) Marble (d) Marine shell
- 5- 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.
- 6- Ethanol can be converted into ethanoic acid by:
- (a) Hydrogenation (b) Oxidation ✓
(c) Hydration (d) Distillation
- 7- Which element forms an ion with charge +3?
- (a) Be (b) Al ✓
(c) C (d) Si

- 8- Elimination bimolecular reactions involve:
(a) First order kinetics (b) Second order kinetics ✓
(c) Third order kinetics (d) Zero order kinetics
- 9- Rectified spirit contains ethyl alcohol:
(a) 80% (b) 85%
(c) 90% (d) 95% ✓
- 10- 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
- 11- Which ion will have maximum value of heat of hydration?
(a) Na^+ (b) Cs^{+1}
(c) Ba^{+2} (d) Mg^{+2} ✓
- 12- Select from the following, which one is an alcohol?
(a) $\text{CH}_3 - \text{O} - \text{CH}_3$ (b) $\text{CH}_3 - \text{CH}_2 - \text{OH}$ ✓
(c) CH_3COOH (d) $\text{CH}_3 - \text{CH}_2 - \text{Br}$
- 13- Chlorine heptaoxide reacts with water to form:
(a) HClO (b) HClO_4 ✓
(c) HClO_3 (d) HClO_2
- 14- During nitration of benzene, the active nitrating agent is:
(a) NO_3 (b) NO_2
(c) NO_2^+ ✓ (d) HNO_3
- 15- Laughing gas is chemically:
(a) N_2O_4 (b) N_2O_2
(c) N_2O ✓ (d) NO
- 16- Which of the following reagents will react with both aldehydes and ketones?
(a) Tollen's reagent (b) Fehling's reagent
(c) Grignard's reagent ✓ (d) Benedict solution
- 17- Which of the following is not a fatty acid?
(a) Propanoic acid (b) Acetic acid
(c) Phthalic acid ✓ (d) Butanoic acid