

Inter (Part-II) 2021

Chemistry	Group-I	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- Hydrogen bond is the strongest between the molecules of:
- (a) HF ✓ (b) HCl
(c) HBr (d) HI
- 2- Formula of chloroform is:
- (a) CH₃Cl (b) CCl₄
(c) CH₂Cl₂ (d) CHCl₃ ✓
- 3- Ketones are prepared by the oxidation of:
- (a) Primary alcohol (b) Secondary alcohol ✓
(c) Tertiary alcohol (d) All of these
- 4- Which is not a calcareous material:
- (a) Lime (b) Clay ✓
(c) Marble (d) Marine shell
- 5- Keeping in view the size of atoms, which order is the correct one:
- (a) Mg > Sr (b) Ba > Mg ✓
(c) Lu > Ce (d) Cl > I
- 6- Rectified spirit contains ethyl alcohol:
- (a) 80% (b) 85%
(c) 90% (d) 95% ✓
- 7- Tincal is a mineral of:
- (a) Al (b) B ✓
(c) Si (d) C

- 8- For which mechanism the first step involved is the same:
- (a) E1 and E2 (b) E2 and S_N2
(c) S_N1 and S_N2 (d) E1 and S_N1 ✓
- 9- Which of the following is not a fatty acid:
- (a) Propanoic acid (b) Butyric acid
(c) Valeric acid (d) Phthalic acid ✓
- 10- Which one of the following is a typical transition metal?
- (a) Sc (b) Y
(c) Ra (d) Co ✓
- 11- Which of the following sulphates is not soluble in water?
- (a) Sodium sulphate (b) Potassium sulphate
(c) Zinc sulphate (d) Barium sulphate ✓
- 12- Linear shape is associated with which set of hybrid orbitals:
- (a) sp ✓ (b) sp²
(c) sp³ (d) dsp²
- 13- Which halogen occurs in a positive oxidation state?
- (a) Fluorine (b) Chlorine
(c) Bromine (d) Iodine ✓
- 14- The electrophile in aromatic sulphonation is:
- (a) H₂SO₄ (b) HSO₄
(c) SO₃ ✓ (d) SO₃⁺
- 15- Laughing gas is chemically:
- (a) NO (b) N₂O ✓
(c) NO₂ (d) N₂O₅
- 16- The carbon atom of a carboxyl group is hybridized:
- (a) sp (b) sp² ✓
(c) sp³ (d) dsp²
- 17- Which acid is used in the manufacture of synthetic fibre?
- (a) Formic acid (b) Oxalic acid
(c) Carbonic acid (d) Acetic acid ✓