

Section-A (MCQ's)

Q.1 Choose the correct answer for each from the given options:

- (i) Which hydrides are used as reducing agent in metallurgical process.
(a) Ionic (b) Covalent (c) Complex (d) Metallic
- (ii) Carnallite is an ore of:
(a) Ca (b) Mg (c) Na (d) Ba
- (iii) Plaster of Paris obtained by heating:
(a) Epsom (b) Gypsum (c) Dolomite (d) Lime stone
- (iv) Hydrogen sulphide smell like,
(a) Bitter almond (b) Rotten eggs (c) Pleasant smell
(d) All of these
- (v) Fungicides are the pesticides which.
(a) Control the growth of fungi (b) Kill insects
(c) Kill herbs (d) Kill plants
- (vi) Which of these polymers is a synthetic polymer:
(a) Animal Fat (b) Starch (c) Polyester (d) Cellulose
- (vii) The vertical columns in modern periodic table are called,
(a) Period (b) Basic (c) Acidic (d) Groups
- (viii) In acetylene molecules the bond between C and C atom is:
(a) Single (b) Double (c) Triple (d) Ionic bond
- (ix) Silver nitrate (AgNO_3) is used in laboratory as a reagent for.
(a) Nitrites (b) Sulphide (c) Halides (d) Chlorides
- (x) Laughing gas is chemically.
(a) NO (b) N_2O (c) NO_2 (d) N_2O_4
- (xi) Which of the following hydrogen halide is the weakest acid in solution:
(a) HF (b) HBr (c) HI (d) HCl
- (xii) Which of the following is an alcohol,
(a) R-OH (b) R-O-R (c) (d) RCOOH
- (xiii) The formula of chloroform is,
(a) CH_2Cl (b) CCl_2 (c) CHCl_2 (d) CH_2Cl_2
- (xiv) The earth crust contains _____ carbon.
(a) 27% (b) 2.7% (c) 0.27% (d) 0.027%
- (xv) Which one is called a universal solvent?
(a) H_2O (b) CH_3OH (c) $\text{C}_2\text{H}_5\text{OH}$
(d) $\text{CH}_3-\text{O}-\text{Cl}$

- (xvi) Which acid is used in the manufacture of synthetic fiber.
(a) Formic acid (b) Oxalic acid (c) Carbonic acid (d) Acetic acid
- (xvii) Which one of the following elements is not present in all proteins.
(a) Carbon (b) Hydrogen (c) Nitrogen (d) Sulphur

Section-B
(Short Answer)

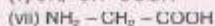
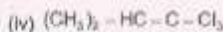
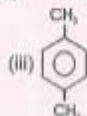
Note: Answer any EIGHT of the following questions. Each question carries 05 marks.

- Q.2 Describe Periods and groups of long form of periodic table.
- Q.3 Describe ionic and complex hydrides with example.
- Q.4 How sodium Hydroxide is manufactured by electrolysis of sodium chloride and also give its uses?
- Q.5 Describe the structure of graphite with properties and uses.
- Q.6 Make the conversions of the following (Write balanced equations only).
(i) Methane to Ethane (ii) Acetylene to Ethanol
(iii) Ethanol to Acetic Acid (iv) Ethylene to Ethane
(v) Ethyne to silver acetalide
- Q.7 Discuss elimination reaction of alkyl halide giving mechanism of E₁ and E₂ reactions.
- Q.8 How form aldehyde are prepared, give their physical and chemical properties?
- Q.9 What are lipids, Describe their classification and role in human body.
- Q.10 Give the biological importance of carbohydrates.
- Q.11 Define Plastic. Give their types.

Section-C (Descriptive Answer)

Note: Answer any TWO of the following questions.

- Q.12 (a) How is bauxite purified? Give at least three methods for the purification.
(b) Explain different methods used for the preparation of phenol and give its uses.
- Q.13 Write notes on any three of the following:
(i) Amino Acid (ii) Photography (iii) Isomerism
(iv) Enzymes (v) Carboic Acid
- Q.14 (a) Name the following by I.U.P.A.C system.
(i) $[\text{CO}(\text{NH}_2)_2]_2 \cdot \text{B}_2\text{O}_3$ (ii) $\text{Zn}[\text{NH}_3]_4 \cdot \text{BO}_2$



b) Write the structure of the following:

(i) Glutamic acid

(ii) Pyridoxine

(iii) Ascorbic acid

(iv) Vinyl alcohol

(v) Isobutyl iodide

(vi) 1, 2 Ethane diol

(vii) 5, 5, -dimethyl hexan - 3 - one

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