

**INTERMEDIATE PART-II (12<sup>th</sup> CLASS)****CHEMISTRY PAPER-II (OLD SCHEME)**

TIME ALLOWED: 2.40 Hours

**GROUP-I****SUBJECTIVE**

MAXIMUM MARKS: 68

**NOTE: - Write same question number and its part number on answer book,  
as given in the question paper.**

**SECTION-I**

**2. Attempt any eight parts. 8 × 2 = 16**

- (i) Oxidation state of Noble gases is usually zero, why?
- (ii) Alkali metals give ionic hydrides, why?
- (iii) Give formula of the minerals: (a) Halite (b) Natron
- (iv) Why lime is added to acidic soils?
- (v) Why  $SO_3$  is dissolved in  $H_2SO_4$  and not in water?
- (vi) Give formulas of (a) Apatite (b) Oleum
- (vii) What is the effect of heat on  $H_3PO_4$ ?
- (viii) Complete and balance the equation:-  $Cu + HNO_3 (conc.) \longrightarrow$
- (ix) What is Partial Hydrogenation of Alkynes? Give example.
- (x) What is Hydrogenolysis? Give an example.
- (xi) What are Clinkers?
- (xii) What is Incineration?

**3. Attempt any eight parts. 8 × 2 = 16**

- (i) Why liquid Silicones are preferred over ordinary organic lubricants?
- (ii) Name with formulas the Fluorides of Xenon.
- (iii) Define Ligand and Coordination number.
- (iv) What is Knocking?
- (v) Complete the reactions:- (a)  $C_6H_6 + O_2 \longrightarrow$  (b)  $C_6H_5OH + Zn \longrightarrow$
- (vi) Boiling point of Ethanol is higher than ether, why?
- (vii) Write the structural formulas for (a) Picric acid (b) Glycerol
- (viii) Why the bite of an ant causes irritation? How can it be cured?
- (ix) What is Silver Mirror Test? (Tollen's test)
- (x) Give the uses of Formaldehyde.
- (xi) What is Biosphere?
- (xii) What are Secondary Air Pollutants?

**4. Attempt any six parts. 6 × 2 = 12**

- (i) What are Alkyl Halides and Primary Alkyl Halides? Give one example of each.
- (ii) Why Grignard Reagents are highly reactive?
- (iii) What is Wurtz-Synthesis?
- (iv) Alkyl fluorides do not react under ordinary conditions, why?
- (v) What are Halogens?
- (vi) What is Halothane? Give its one use.
- (vii) What is the difference between Sucrose and Fructose?
- (viii) What is Saponification Number?
- (ix) Give name and formulas of two ores of Iron.

**SECTION-II**

**NOTE: - Attempt any three questions.**

- 5.(a) How do you justify the position of Hydrogen at the top of IA and VIIA groups in periodic table? 4
- (b) Discuss the manufacture of Sodium Metal by Down's Cell. (Diagram is not required) 4
- 6.(a) Write the importance of Organic Chemistry. 4
- (b) What is Aldol condensation? Give one example. Also write its Mechanism. 4
- 7.(a) What is Mechanism of Halogenation of Alkenes? 4
- (b) Discuss methods of preparation of Alkyl Halides from Alcohols. 4
- 8.(a) How Benzene is prepared from:- 4
- (i) Cyclohexane (ii) Phenol (iii) Acetylene (iv) Sodium Benzoate 4
- (b) Write down methods of preparation of Amino Acids. 4
- 9.(a) What is Electrochemical Theory? 4
- (b) Discuss role of Chlorofluorocarbons in destroying Ozone. 4