2015 (A)	Roll No:	
INTERMEDIATE PART-II	(12 th CLASS)	

CHEMISTRY PAPER-II (NEW SCHEME)

TIME ALLOWED: 3.10 Hours

GROUP-I

SUBJECTIVE

MAXIMUM MARKS: 83

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.

- (i) Why ionization energy values decrease down the group?
- (ii) Why the oxidation state of noble gases is usually zero?
- (iii) Write two reactions in which $NO_{2(g)}$ acts as strong oxidizing agent.
- (iv) How red phosphorous is obtained from white phosphorous?
- (v) What are Carbocyclic Compounds? Give two examples.
- (vi) Define Tautomerism. Give an example.
- (vii) What are Wurtz Synthesis for the preparation of Alkanes?
- (viii) Explain the reactivity of Grignard's reagent.
- (ix) Write four uses of Acetic Acid.
- (x) Write the structural formulas of (i) Oxalic acid (ii) Malonic acid
- (xi) Give the names of four non woody raw materials used in paper industry.
- (xii) How urea is obtained from Ammonium Carbonate?

3. Attempt any Eight parts.

 $8 \times 2 = 16$

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- (i) Write chemical formulae of (a) Halite (b) Natron
- (ii) How do L_iH and Na_2O_2 react with water?
- (iii) What are the uses of Helium gas?
- (iv) How $HC\ell O_4$ is prepared? Give its uses.
- (v) What is Wolf-Kishner reduction?
- (vi) Prepare Chloroprene from Acetylene.
- (vii) What is Williumson's synthesis?
- (viii) Give stepwise synthesis of Ethanol from Molasses.
- (ix) What is meant by Rancidity of fats?
- (x) Give the uses of LIPIDS.
- (xi) What is the composition of Atmosphere?
- (xii) Explain the term BOD.

4. Attempt any Six parts.

 $6 \times 2 = 12$

- (i) Give any four properties of Vitreous Silica.
- (ii) Write any two uses of Boric Acid.
- (iii) Explain the term GALVAIZING or Zinc Coating.
- (iv) Explain is mild steel and Medium Carbon Steel.
- (v) Give X rays study of Benzene. Draw its structure.
- (vi) Give mechanism of Nitration of Benzene.

- (vii) What is Formalin? Give its composition.
- (viii) Give four uses of Acetaldehyde.
- (ix) How will you distinguish between Ethene and Ethanol? Give equations.

SECTION-II

NOTE	E: - Attempt any three questions.	$\times 3 = 24$
5.(a)	How Sodium metal is produced commercially by down cell? Give advantages also.	4
(b)	How Alkanes are prepared? Write down four methods.	4
6.(a)	Give eight uses of Aluminium.	4
(b)	Give four methods for the preparation of Benzene.	4
7.(a)	Write four chemical reactions of Nitrogen Oxide.	4
(b)	Explain SN1 mechanism of reaction of Alkyl Halides.	4
8.(a)	How bleaching powder is prepared commercially? Give its uses.	4
(b)	What are Alcohols? How will you distinguish between primary, secondary and tertiary alcohols?	4
9.(a)	Write a note on sp^3 hybridization.	4
(b)	Give uses of Formaldehyde.	4
	SECTION-III (PRACTICAL)	
10. At t	tempt any three parts.	
(i)	Write the qualitative analysis of $A\ell^{3+}$ in a systematic manner.	5
(ii)	Write the qualitative analysis of Ca^{2+} in a systematic manner.	5
(iii)	(i) Write the qualitative analysis of HCO_3^- in a systematic manner.	4
	(ii) Describe ring test.	1
(iv)	How will you identify aldehydic group in an organic compound.	5
(v)	Write the material required, equation and procedure for preparation of Phenyl Glucosazo	one. 5

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