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April 2014

CHEMISTRY PAPER - II : CH - 242
Organic Chemistry & Analytical Chemistry - II
(New) (24136)

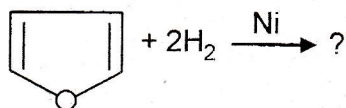
Time : Two Hours

Max. Marks : 40

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Figures to the right indicates full marks.
6. Use of logarithmic table & calculators is allowed.

1. a) Choose the correct answer of the following.
- i) Metal ion react with ligands to form..... compound.
a) ionic
b) co-ordinate complex
c) co-valent
d) multiple bonded compound.
- ii) TLC is chromatography.
a) Liquid - Liquid
b) Solid - Liquid
c) Gas - Liquid
d) Gas - solid.
- iii) is six memberd heterocyclic compound.
a) Furan
b) Pyrrole
c) Thiophene
d) Pyridine
- iv) An organo - metallic compound contain bond.
a) C - O
b) C - N
c) C - H
d) C - M
- b) Attempt **any two** of the following.
- i) What is mean by redox titration ?
- ii) Define R_f - value.
- iii) Give one methode of preparation of organo lithium compound.

iv) Predict product.



2. Attempt **any two** of the following.

8

- Discuss about formation constant of a complex with suitable example.
- Discuss the technique of paper chromatography.
- How will you convert Diethyl malonate to propanoic acid.

3. a) Answer **any one** of following.

4

- Explain the Nature of Titration curve involved in Ce^{+4} Versus Fe^{+2} .
- How will you prepare t-butyl alcohol from ethyl acetate using Grignard reagent.

b) Answer **any one** of the following.

4

- Write a note on chelation (chelon) effect.
- Give Haworth synthesis of Napthalene.

4. Attempt **any two** of the following.

8

- Discuss about preparation of 0.1N KMnO_4 solution & its standardization.
- What is active methylene group ? Give synthesis of succinic acid from Ethyl acetoacetate.
- Discuss preparation of organo copper compound with example.

5. a) Attempt **any one** of the following.

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- Discuss the technique of thin layer chromatography.
- What are heterocyclic compound ? Give one method of synthesis of
 - Thiophene
 - Furan
 - Pyrrole.

b) Give the structure of EDTA.

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