

**IV SEMESTER**  
**ORGANIC CHEMISTRY PRACTICAL - II (60 HOURS)**

**Any Six Preparations From The Following Involving Two Stages**

1. sym-Tribromobenzene from aniline.
2. Benzanilide from benzophenone
3. m-Nitrobenzoic acid from methyl benzoate
4. 2,4 - Dinitrobenzoic acid from p-nitrotoluene
5. m-Nitrobenzoic acid from methylbenzoate
6. Benzil from benzaldehyde
7. Anthraquinone from phthalic anhydride
8. Phthalide from phthalic anhydride
9. 2 - Phenylindole from phenylhydrazine
10. 2, 4 - dinitrophenyl hydrazine from p-nitrochlorobenzene

**Any Two Exercises in the Extraction of Natural Products**

(Need not to be given for examination)

1. Caffeine from tea leaves
2. Lactose from milk
3. Citric acid from lemon
4. Piperine from black pepper

**Chromatographic Separations** (Need not be given for examination)

1. Column chromatography - separation of anthracene and picric acid from anthracene picrate.
2. Thin layer chromatography separation of green leaf pigments.
3. Paper chromatography-Identification of amino acids.

**Any Five Estimation**

1. Estimation of aniline
2. Estimation of phenol
3. Estimation of glucose
4. Estimation of amino group
5. Estimation of amide group
6. Saponification of fat or an oil
7. Iodine value of an oil
8. Estimation of sulphur in an organic compound
9. Estimation of methyl ketone

#### IV Special Interpretation of Organic Compounds UV, IR, PMR And Mass Spectra Of 12 Compounds

1. 1,3,5- Trimethyl benzene
2. Pinacolone
3. p-Methoxybenzylalcohol
4. Benzyl bromide
5. Phenylacetone
6. Acetone
7. Isoopropyl alcohol
8. 2-N,N-Dimethylaminoethanol
9. Pyridine
10. 4-Picoline
11. 1,3-dibromo - 1, 1- dicholoropropene
12. Cinnamaldehyde

#### Organic Practical : Max.Marks :60

Preparation	10 Marks
Estimation	20 Marks
Record	10 Marks
Interpretation of spectra	10 Marks
Practical Viva	10 Marks
Total	60 Marks

#### RECOMMENDED BOOKS

1. A text book of Practical Organic Chemistry by Arthur I.Vogel, CBS Pub.,
2. Laboratory Manual of Organic Chemistry Raj K. Bansal, Wiley Eastern limited.
3. Laboratory manual of Organic Chemistry by Mann and Saunders.
4. Advanced Practical Chemistry, Chatterjee, Books & Allied (P) Ltd.,

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