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# 18BP035 PHARMACEUTICAL ORGANIC CHEMISTRY–II LABORATORY

## LABORATORY EXPERIMENTS

### I Experiments involving laboratory techniques

- Recrystallization.
- Steam distillation.

### II Determination of following oil values (including standardization of reagents)

- Acid value.
- Saponification value.
- Iodine value.

### III Preparation of compounds

- Benzanilide /Phenyl benzoate/Acetanilide from Aniline/Phenol /Aniline by acieration reaction.
- 2,4,6-Tribromo aniline/Para broom acetanilide from Aniline.
- Acetanilide by Halogenation (Brominating) reaction.
- 5-Nitro salicylic acid/Meta did nitro benzene from Salicylic acid / Nitro benzene by nitration reaction.
- Benzoic acid from Benzyl chloride by oxidation reaction.
- Benzoic acid/ Salicylic acid from alkyl benzoate/ alkyl salicylate by hydrolysis reaction.
- 1-Phenyl azo-2-napthol from Aniline by diazotization and coupling reactions.
- Benzyl from Benzoic by oxidation reaction.
- Dibenzal acetone from Benzaldehyde by Caisson Schmidt reaction.
- Cinnamic acid from Benzaldehyde by Perkin reaction.
- *P*-Iodole benzoic acid from *P*-amino benzoic acid.

### RECOMMENDED BOOKS (LATEST EDITIONS)

1. Organic Chemistry by Morrison and Boyd.
2. Organic Chemistry by I.L. Finer, Volume-I.
3. Textbook of Organic Chemistry by B.S. Bah & Arum Bah.
4. Organic Chemistry by P.L.Soni.
5. Practical Organic Chemistry by Mann and Saunders.
6. Vogel's text book of Practical Organic Chemistry.
7. Advanced Practical organic chemistry by N.K.Vishnoi.
8. Introduction to Organic Laboratory techniques by Pavia, Lamp man and Kris.

