

# SATAVAHANA UNIVERSITY

## Bsc III year(CBCS) Chemistry-V (Semester-V) Practical Examinations

### ORGANIC SYNTHESIS AND TLC

TIME 2 Hrs

QUTION BANK

Max marks :25

#### Section – I

1. Prepare a pure sample of Acetyl Salicylic acid (Asprin) by Acetylation of salicylic acid.
2. Prepare a pure sample of Benzanilide by the Benzoyltion reaction of Aniline.
3. Prepare a pure sample of Nitro benzene from Benzene by aromatic electrophilic substitution reaction.
4. Prepare a pure sample of Meta di nitro benzene from nitro benzene by nitration reaction.
5. Prepare a pure sample of p-bromo acetanilide by the electrophilic bromination of Acetanilide.
6. Prepare a pure sample of 2,4,6-tri bromo phenol from phenol.
7. Prepare a pure sample of Benzoic acid from Benzyl chloride by oxidation process.
8. Prepare a pure sample of n- Butyl acetate using n-Butyl alcohol and acetic acid.
9. Prepare a pure sample of B-naphthyl methyl ether by the methylation of B-naphthol.
10. Prepare a pure sample of Benzylidene aniline from Benzaldehyde .
11. Prepare a pure sample of phenyl azo-B-naphthol by diazotisation and coupling method.

#### Section – II

1. Separate the mixture of 2,4-di nitro phenyl hydrazones of acetone and 2- butanone by TLC method and Determine the Rf values
2. Separate the mixture of ortho and para nitro aniline by column chromatography.

#### Scheme of valuation

- I. Principle, Reaction and Mechanism for the preparation = 12
- II. Separation of two component mixture and calculation of Rf values = 8
- III. Viva = 02
- IV. Record = 03

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TOTAL = 25 Marks

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