SEMESTER I
ORGANIC CHEMISTRY
PRACTICAL SYLLABUS

Programme :M.Sc   **Max marks : 50**
Course Code : P20/CHE/DSC/102/P   **No. of Hrs./Week: 4 Hrs**
No. of Credits :2

COURSE OUTCOME:

CO1: Identify various functional groups present in the given organiccompound by using a systematic procedure.

CO2: Get familiarize with solubility nature of organic substances ofdifferent functional Groups

CO3: To get acquainted with the tests involved in identification of various functional groups

Identification of organic compounds systematic qualitative analysis:
data BP / MP, Ignition test, solubility classification, Extra elements-N,S& Halogens, (Lassagnine sodium fusion test, Beilstein test)
Functional groups tests, Preparation of crystalline derivative and determination of their m.p.s and reference to literature to identify the compounds
A minimum of **8** following compounds to be studied as unknown covering atleast one from each of the solubility classes
Glucose, benzoic acid, 2-chloro benzoic Acid, Anisic acid, p-Nitrobenzoic acid; p-Cresol, p-Chlorophenol, α-Naphthol; Aniline, o/m/p-Chloroanilines; N- Physical Methyl aniline/N-Ethylaniline, N,N-Dimethylaniline,Benzamide, Benzaldehyde, Anisaldehyde, Acetophenone,benzophenone,Ethylbenzoate,methylbenzoate,Nitrobenzene, chlorobenzene, bromobenzene , naphthalene, biphenyl anthracene

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References Books:

1. Vogel.Text book of Practical Organic Chemistry.
2. Mann,F.G., and Saunders,F.C.Text book of practical organic chemistry.
3. SilversteinBassler, M.Spectrometric identification of organic compounds(5th ed.).

SEMESTER 1

ORGANIC CHEMISTRY-I

MODEL PRACTICAL QUESTION PAPER

Course Code: P20/CHE/DSC/102/P   **Time: 3Hrs**
Credits : 2   **Max. Marks:50**

1. Write the tests involved in the identification of weak acids. **(CO1)**   **10 M**

2. Identify the functional group present in the given organic compound by a study of its Solubilitybehaviour, ignition and confirmatory tests. Determine its b.p/m.p and submit the derivative.**(CO2)**   **25 M**

3. Record + Attendance   **5 M**

4. Viva voce   (CO3)   **10 M**