SEMESTER-III
PAPER-2 SEPARATION AND IDENTIFICATION OF ORGANICCOMPOUNDS
PRACTICAL SYLLABUS

Course code P20/CHE/DSC/302/P **Max Marks: 50**
Course type: DSC-10 **No. of Hrs/ week: 4 Hrs**
No. of credits: 2

COURSEOUTCOMES:

CO1 Will be able to separate the given organic mixture based on the solubility.

CO2 Identify various functional groups present in the given organic compound by using a systematic procedure.

CO3 Familiarize with the tests involved in identification of various functional groups.

CO4 Maintain a detailed scientific note book, summarize findings in writing in a clear and concise manner

Separation and Identification of Organic Compounds

Separation of two component mixtures by chemical methods and their identification by chemical reactions — separation by using solvent ether, 5 % aqueous sodium bicarbonate, 5% sodium hydroxide and dil hydrochloric acid, checking the purity of the two components by TLC, identification of the compounds by a systematic study of the physical characteristics (mp/bp), extra elements (nitrogen, halogens and sulfur), solubility, functional groups, preparation of crystalline derivatives and identification by referring to literature. A minimum of **09** mixtures should be separated and analyzed by these procedures.

Separation of three component mixtures by chemical methods. A minimum of two mixtures should be separated and analyzed.

Cannizzaro reaction: 4-Chloro benzaldehyde as substrate and separation of the resulting two component mixture.

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MODEL PRACTICAL QUESTION PAPER

Course Code: P20/CHE/DSC/302/P **Time: 3hrs**
No. of Credits: 2 **Max. Marks: 50**

Q1. Write the principle involved in the separation of a given Binary/ Ternary Organic mixture. **10M (CO1&CO4)**

Q2. Separate and identify the two components present in the given binary mixture of Organic Compounds by following a systematic procedure. Submit two derivatives for each compound and report their melting points. **25M (CO2, CO3)**

Q3. Record + Attendance **5M**

Q4. Viva **10M**