

Chemistry (P.G.)
[CBCS]
M.Sc. Second Semester End Examination-2024
(Regular & Supplementary Paper)
PAPER- CEM-295
[Practical]

Full Marks: 50

Time: 06 Hrs

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Carry out the following experiment

1. Identification of supplied single Liquid organic compound marked by 'O' accordingly. 15

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| i) | Physical Characteristics. | 1 |
| ii) | Solubility test with preliminary conclusion. | 1 |
| iii) | Detection of special element(s). | 3 |
| iv) | Detection of the functional group(s) | 5 |
| v) | Determination of the boiling point of the sample. | 1 |
| vi) | Prepare and submit a suitable solid derivative with signature of examiner. | 3 |
| vii) | Naming of the compound with structure. | 1 |

2. Extraction of Renewable chemicals of a plant	15
i) Collection of the plant part	2
ii) Weight of the part	2
iii) Extact with particular solvent	6
iv) Removal of impurities	1
v) Weight of the product with % of yield	2
vi) Confirm the product(s) with TLC and R_f value.	2
Or	

Preparation of pure organic compound	15
i). Weight of the compound taken	2
ii) Procedure	2
iii). Weight of the Crude product	3
iv). % of yield	3
v). Recrystalization of the product with melting point	3
vi). Confirm the product with TLC and R_f value	2

3. Laboratory Note Book	10
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4. Viva-Voce	10
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