

MAHATMA GANDHI UNIVERSITY, KOTTAYAM
MGU-UGP (HONOURS) Fifth Semester Practical Examination
(2024 Admission Onwards)

Model Question Paper

Course: MG5DSCCHE301 -PHYSICAL CHEMISTRY - 2 (PRACTICAL)

Duration: 3 Hours.

Maximum marks: 35

Part I: Conduct any one experiment with (✓) mark (15 Marks)

1. Perform the calorimetric experiment to evaluate the heat evolved during neutralization of	[CO-5, S]
2. Using solubility measurements at suitable temperatures, estimate the heat of solution of the given salt	[CO-5, S]
3. Using conductometric measurements, determine the concentration of the givenacid by titrating it against the standard	[CO-5, S]
4. Determine the parachor value of the given liquid by surface tension method.	[CO-5, S]
5. Estimate the composition of the two-component liquid system from its surface-tension measurements.	[CO-5, S]
6. Locate the critical micelle concentration (CMC) of the given surfactant by measuring surface tension at different concentrations.	[CO-5, S]

Part II: (20 marks)

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| 7. Write the principle and Procedure for the given Experiment | (5 marks) [CO-5, U] |
| 8. Certified Lab report | (5 marks) [CO-5, A] |
| 9. Viva voce based on the practical topics. | (10 marks) [CO-5, A] |
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MGU-UGP (HONOURS) Fifth Semester Practical Examination
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Model Question Paper
Course: MG5DSCCHE300 - Organic Chemistry-3 Practical

Time -3 Hours

Maximum marks: 35

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| 1. Analyse and identify the functional group present in the given organic compound by microscale method and prepare its suitable derivative. | (10 marks) | [CO-6, S] |
| 2. Write the principle and procedure for the synthesis of | (4 marks) | [CO-6, U] |
| 3. Perform the chemical synthesis of the above compound, then calculate its percentage yield. | (6 marks) | [CO-6, S] |
| 4. Viva voce based on the practical topics. | (10 marks) | [CO-6, An] |
| 5. Certified Lab report. | (5 marks) | [CO-6, A] |
