

**M.Sc. 3rd Semester Examination-2022-23**

**CHEMISTRY (PRACTICAL)**

Course ID : 31466      Course Code : CHEM-306C(PR)

Course Title : Physical Chemistry Practical

Time : 6 Hours

Full Marks : 40

*The figures in the right hand margin indicate full marks.*

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

1. Perform any one of the following experiments as assigned

30

(a) Determine the dissociation constant of the supplied indicator dye 'A' by colorimetry / spectrophotometry.

OR

(b) Determine the order of the hydrolysis reaction of the supplied sample 'B' in presence of NaOH by colorimetry / spectrophotometry.

(Turn Over)

OR

- (c) The supplied solution 'C' is a mixture of two acids. Determine the concentration of two acids in the mixture by potentiometry.

OR

- (d) Determine the formal potential for the given sample marked as 'E' by potentiometry.

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| 2. Laboratory Notebook | 5 |
| 3. Viva Voce           | 5 |

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