Roll No.

Y - 3216

M.Sc. (Fourth Semester)

EXAMINATION, May/June 2021

INDUSTRIAL CHEMISTRY

(Advanced Instrumental Techniques)

Time: Three Hours

Maximum Marks: 85 Minimum Pass Marks: 29 *Note* : Attempt *all* questions. Unit-I Explain instrumentation and applications of DSC. 1. 17 **Unit-II** 2. Write general techniques and apparatus of potential coulometery. 17 Unit-III 3. Write in detail about neutron diffraction. 17 **Unit-IV** Write notes on any two of the following: 17 4. (a) Fluroscence (b) Phosphorance (c) Polarimetry Unit-V Write notes on any two of the following: 17 (a) Use of electron microscopy in surface characterization (b) Discuss TLC (c) Fluid extraction