B.Sc. DEGREE EXAMINATION,ODD SEMESTER 2020
III Year V Semester
Analytical Chemistry – I

Max.marks :25

Answer any **FIVE** questions $(5 \times 5 = 25)$ Marks

1. Define diffusion current and half-wave potential. Mention their significance.
2. Discuss the factors affecting TGA curves.
3. a. What are the disadvantages of dropping mercury electrode?
   b. Write the equation for calculating optical purity of a sample. (3+2)
4. a. What is TMS? Why is it used as a reference in proton NMR spectroscopy?
   b. State Nitrogen rule. (3+2)
5. Sketch the block diagram and Mention the components of NMR spectrometer.
6. Write the principle of mass spectrometry.
7. Describe the block diagram of digital computer.