

PARUL UNIVERSITY
FACULTY OF PHARMACY
B.Pharm. Summer 2018-2019 Examination

Semester: 4**Date: 03/04/2019****Subject Code: 08101252****Time: 2:00 pm to 5:00 pm****Subject Name: Pharmaceutical Analysis-II****Total Marks: 75****Instructions:**

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

Q.1 Essay type Questions. (Any 2 out of 3) (10 marks each) (20)

1. Draw a neat and labeled diagram of "Polarimeter". Explain the working principle, advantages and application of Polarimetry.
2. Write a note on TGA.
3. Define Reference Electrode. Explain the principle and working of Saturated Calomel Electrode (SCE). Write the advantages and applications of SCE.

Q.2 Short Essay type Questions. (Any 7 out of 9) (5 marks each) (35)

1. Write a note on Dropping mercury electrode.
2. Explain Kohlrausch's law. Write a note on factors affecting conductance.
3. What is ICH? Explain accuracy and precision in detail.
4. What are Electroanalytical methods? Classify Electroanalytical methods of analysis.
5. Define Conductance. Write a note on types of Conductometric titration with respect to acid and base.
6. Write a note on DSC.
7. Write short note on Isotopic dilution method.
8. Write note on Continuous extraction.
9. Differentiate Galvanic cell and Electrolytic cell.

Q.3 Answer in short. (2 marks each) (20)

1. Define: i.) robustness ii) Molar conductance
2. Write about Scintillation.
3. Why Nitrogen is used as purging gas in DME.
4. Give the equation for Ohm's law
5. Differentiate Alpha and Beta particles.
6. Enumerate method of detecting end point by potentiometry titration.
7. Define: (i) pH (ii) Diffusion current
8. Differentiate Indicator electrode and Reference electrode
9. Which properties of the material measured by Thermal Analysis?
10. What is the use of auxiliary electrode in DME?