

PARUL UNIVERSITY
FACULTY OF PHARMACY
B.Pharm. Winter 2019-20 Examination

Semester: 4**Date: 04/12/2019****Subject Code: 08101252****Time: 02:00pm to 05:00pm****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. Write a note on Continuous extraction. Explain with suitable example.
2. What is TGA? Explain in detail about its working principle, advantage and application.
3. Define Electrode. Explain the principle and working of Glass Electrode. Write the advantages and applications of glass electrode.

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 Validation? 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. Draw a neat and labeled diagram of "Polarimeter". Explain its working principle.
9. Differentiate Galvanic cell and Electrolytic cell.

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

1. Define: i.) robustness ii) Molar conductance
2. What is the use of auxillary electrode in DME?
3. Write about Scintillation.
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. Why Nitrogen is used as purging gas in DME?