

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 2 EXAMINATION – SUMMER -2019

Subject Code: 2220003**Date: 29-05-2019****Subject Name: Pharmaceutical Analysis-II****Time: 10:30 AM TO 01:30 PM****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) What is chromatography? Classify it based on retention mechanism. **06**
(b) Explain Oxygen flask combustion method. **05**
(c) Explain following terms with respect to chromatography : Resolution, Efficiency **05**
- Q.2** (a) Discuss advantages and disadvantages of instrumental methods of analysis. **06**
(b) What is conductance? Discuss various factors affecting conductance. **05**
(c) Explain signal to noise ratio in detail. **05**
- Q.3** (a) Discuss different types of Calorimetric methods? Write note on thermogravimetric analysis. **06**
(b) Write brief note on Paper chromatography. **05**
(c) Explain in brief: Current voltage curve in polarography. **05**
- Q.4** (a) Explain in Brief: Conductometric titrations. **06**
(b) What is standard reduction potential? How will you determine end point in potentiometry? **05**
(c) Write note on dropping mercury electrode. **05**
- Q.5** (a) Enlist various electrodes used in potentiometry? Write note on glass electrode. **06**
(b) Explain in detail: Biamperometry **05**
(c) Discuss the theories of chromatography. **05**
- Q.6** (a) Write note on Instrumentation of Polarimeter. Discuss its application. **06**
(b) Discuss various factors affecting extraction of drugs. **05**
(c) Explain in brief: Differential scanning calorimetric method. **05**
- Q.7** (a) What is extraction? Explain multiple extraction and continuous extraction. **06**
(b) Write note on gasometric methods. **05**
(c) What is polarography? Write note on Pulse polarography. **05**
