

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.

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|-------------|--|-----------|
| 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 |
