

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-1 • EXAMINATION – SUMMER -2018

Subject Code: 2210003**Date: 05/05/2018****Subject Name: Pharmaceutical Analysis-I****Time: 02:30 PM TO 05:30 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) | Write a note on Law of mass action in detail. | 06 |
| | (b) | What is hydrolysis? Explain Henderson-Hasselbach equation in detail. | 05 |
| | (c) | Write note on acid-base indicators. | 05 |
| Q.2 | (a) | Describe a note on theory of redox titrations. | 06 |
| | (b) | Explain a note on Vollhard method. | 05 |
| | (c) | Write note on redox indicators. | 05 |
| Q.3 | (a) | Describe a note on gravimetric analysis. | 06 |
| | (b) | Explain a note on Iodometry titration. | 05 |
| | (c) | Write a note on diazotization titration. | 05 |
| Q.4 | (a) | Define validation. Enlist validation parameters and explain any two. | 06 |
| | (b) | Write a note on sampling techniques. | 05 |
| | (c) | Define error, classify error and how will you minimize error. | 05 |
| Q.5 | (a) | Write note on Mohrs method. | 06 |
| | (b) | Describe in detail about Karlfisher titrations. | 05 |
| | (c) | Give brief note on Kjeldahl method. | 05 |
| Q.6 | (a) | Write short note on p^M Indicator. | 06 |
| | (b) | Give note on masking and demasking agent in complexometric titration. | 05 |
| | (c) | Write a note on different types on complexometric titrations. | 05 |
| Q.7 | (a) | Write a note on Fajans method. | 06 |
| | (b) | Discuss differentiating solvents and leveling solvents. | 05 |
| | (c) | Give detail note on non aqueous titration. | 05 |
