

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-3 • EXAMINATION – SUMMER -2018

Subject Code: 230004

Date: 07/05/2018

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) | Enlist the different type of complexometric titration.
Explain replacement type of complexometric titration in detail with suitable examples. | 06 |
| | (b) | What is analytical method validation? Enlist validation parameter. Discuss any two parameters in detail. | 05 |
| | (c) | Explain masking and demasking in complexometry. | 05 |
| Q.2 | (a) | Enumerate areas of application of acid-base buffers.
Derive Henderson-Hasselbach equation for finding pH of buffer solution | 06 |
| | (b) | Discuss Merits and Demerits of non aqueous titration over aqueous titration | 05 |
| | (c) | Explain indicators in complexometric titration? | 05 |
| Q.3 | (a) | Describe in detail about gravimetric method of Analysis | 06 |
| | (b) | Define redox titration. Write a note on potassium permanganate titration | 05 |
| | (c) | Write note on theory of acid base indicators | 05 |
| Q.4 | (a) | What is error?
Classify the error and how will you minimize the error? | 06 |
| | (b) | Briefly explain the redox indicators. | 05 |
| | (c) | Give preparation and standardization of KMnO_4 | 05 |
| Q.5 | (a) | Enlist the end point detection methods in precipitation titration.
Explain fajan's method in detail. | 06 |
| | (b) | Explain in detail about Mohr's method. | 05 |
| | (c) | Differentiate Iodometric and Iodimetric titrations. | 05 |
| Q. 6 | (a) | Give the importance of quality control and quality assurance in formulation analysis. | 06 |
| | (b) | Give a detailed account of calibration and cleaning of glass wares | 05 |
| | (c) | Write a note on common ion effect. | 05 |
| Q.7 | (a) | Write note on cerimetry | 06 |
| | (b) | Explain about sampling techniques. | 05 |
| | (c) | Write a brief note on neutralization curve. | 05 |
