

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm. - SEMESTER-II - EXAMINATION – SUMMER-2017

Subject Code: 2220003**Date: 05/06/2017****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) Explain the following terminology (Any three) **06**
(i) Chromatography (ii) Resolution (iii) Capacity factor (iv) Dead time
- (b) Describe classification of chromatography. **05**
- (c) Explain in detail van Deemeter equation. **05**
- Q.2** (a) Describe the oxygen combustion flask method. **06**
- (b) Describe advantages and limitation of instrumental method of analysis. **05**
- (c) What are electroanalytical methods? Explain classification of electroanalytical methods. **05**
- Q.3** (a) Explain the following terminology (Any three) **06**
(i) Validation (ii) Equivalent conductance (iii) Conductivity cell
(iv) Gasometric method.
- (b) Discuss factors affecting conductance. **05**
- (c) Explain different types of conductometric titration. **05**
- Q.4** (a) Write the principle, working and limitations of Glass electrode. **06**
- (b) Discuss method of detecting end point by potentiometry titration. **05**
- (c) Enlist different reference electrode used in potentiometer and explain any one in detail. **05**
- Q.5** (a) Explain the following terminology (Any three) **06**
(i) Signal to noise ratio (ii) Limiting current (iii) Residual current
(iv) Specific rotation
- (b) Discuss Biamperometric titration. **05**
- (c) Describe normal pulse polarography and differential pulse polarography. **05**
- Q.6** (a) Define Extraction. Write a note on continuous extraction. **06**
- (b) What is calorimetry? Describe principle and instrumentation of TG method. **05**
- (c) Write a note on DSC. **05**
- Q.7** (a) Write a note on paper chromatography. **06**
- (b) Write a note on Dropping mercury electrode. **05**
- (c) Explain principle and instrumentation of polarimetry. **05**
