

**B PHARM  
(SEM IV) THEORY EXAMINATION 2017-18  
PHARMACEUTICAL ANALYSIS- II**

Time: 3 Hours

Total Marks: 100

**Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

**1. Attempt all questions in brief. 2 x 10 = 20**

- a. What is onium ion?
- b. What is a Chelating agent?
- c. What is Galenicals?
- d. What do you understand by Antigen and Antibody?
- e. What is conductometry?
- f. Write the examples of Reference electrode.
- g. What is Amperometry?
- h. What is half-wave potential?
- i. Define the 'eluent'.
- j. Define the 'Adsorbent'.

**SECTION B**

**2. Attempt any three of the following: 10 x 3 = 30**

- a. How will you standardize 0.05M Disodium Edetate?
- b. Write a detail note on Diazotization titration.
- c. Discuss the Conductometric titration with its application.
- d. Write the instrumentation and application of Polarography.
- e. Write a detail note on instrumentation and application of Column chromatography.

**SECTION C**

**3. Attempt any one part of the following: 10 x 1 = 10**

- (a) Write the names of few drugs which are analyzed by Non-aqueous titration. Explain any one of them.
- (b) What is EDTA titration? Explain the different types of EDTA titration.

**4. Attempt any one part of the following: 10 x 1 = 10**

- (a) Explain the Kjeldahl metod of nitrogen estimation.
- (b) Write a detail note on Radioimmunoassy (RIA) with its application.

**5. Attempt any one part of the following: 10 x 1 = 10**

- (a) Write a detail note on: i) Indicator electrode; ii) Salt bridge
- (b) Write a detail note on Nernst equation.

**6. Attempt any one part of the following: 10 x 1 = 10**

- (a) Write a detail note on the instrumentation and application of Amperometric titration.
- (b) Write a detail note on: i) Dropping Mercury Electrode; ii) Polarographic Maxima

**7. Attempt any one part of the following: 10 x 1 = 10**

- (a) Write a detail note on: i) Development techniques in paper chromatography; ii) Application of Paper chromatography
- (b) Discuss the methodology of TLC.