

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

*Time: 3 Hours**Total Marks: 70***Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A**

- 1. Attempt *all* questions in brief. 2 x 7 = 14**
- a. Write the names of few useful indicators in Non-aqueous Titration.
 - b. What is Nernst Equation?
 - c. What is Stationary and Mobile Phase in Chromatography?
 - d. Write the advantages of TLC.
 - e. What is the principle of Column Chromatography?
 - f. Define the 'Eluate' and 'Eluent'.
 - g. What are the factors which affects the Diffusion Current?

SECTION B

- 2. Attempt any *three* of the following: 7 x 3 = 21**
- a. Write a note on: i) Masking and Demasking Agents; ii) Levelling and Differentiating Effect.
 - b. Write a note on: i) Applications of Conductometry; ii) Dielectric cell.
 - c. Write a note on: i) Edge Effect; ii) Choice of Chromatographic Paper.
 - d. Write a note on: i) Factors affecting column efficiency; ii) Plate theory of Chromatography.
 - e. Discuss the Karl- Fischer titration.

SECTION C

- 3. Attempt any *one* part of the following: 7 x 1 = 7**
- (a) How would you prepare and standardize the 0.05M Disodium Edetate?
 - (b) Write the application of Non-aqueous Titration.
- 4. Attempt any *one* part of the following: 7 x 1 = 7**
- (a) Discuss the Potentiometric Titration in detail.
 - (b) Discuss about the types of Acid-Base Titration by Conductometric Method.
- 5. Attempt any *one* part of the following: 7 x 1 = 7**
- (a) Write a note on: i) TLC plate preparation methods; ii) Visualizing Agents.
 - (b) Discuss the methodology of Paper Chromatography.
- 6. Attempt any *one* part of the following: 7 x 1 = 7**
- (a) Write an introductory note on gas liquid chromatography (GLC).
 - (b) What is HPLC? Write the applications of HPLC.
- 7. Attempt any *one* part of the following: 7 x 1 = 7**
- (a) Discuss the Amperometry.
 - (b) Write a detail note on ELISA.