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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.