

Paper Id:

150253

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B PHARM
(SEM IV) THEORY EXAMINATION 2018-19
PHARMACEUTICAL ANALYSIS- II

Time: 3 Hours**Total Marks: 100****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 2 x 10 = 20**

- a. Define Leveling Effect with example.
- b. Define Protogenic solvents
- c. Define complexing agent with example agents.
- d. Write the reagents used in Karl- Fischer titration.
- e. Write the different method of column packaging.
- f. Define reference electrode.
- g. Write down applications of non-aqueous titration.
- h. What are the importance of Kjeldahl method?
- i. Write down the name of different type of ELISA method.
- j. Give the importance of chromatography in drug analysis.

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

- a. Write down the principle of non-aqueous titration. Describe different types of solvent in non-aqueous titration with suitable example.
- b. Write a note on estimation alcohol in galenicals method.
- c. Give a brief idea on dielectric cell, reference and indicator electrodes.
- d. Discuss the general principle instrumentation & application of conductometry
- e. Write a note on TLC.

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

- a) Define Leveling Effect and amphiprotic solvents. How you will prepare and standardize 0.1 N perchloric solution.
- b) Define complexometric titration. Write about the standardization of EDTA by complexometric titration method

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

- a) Write a note on radio assays.
- b) Describe Karl- Fischer titration for determination of moisture content.

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

- a) Write the general principles, and instrumentation of potentiometry titration.
- b) Give a brief idea on salt bridge, standard potential, and measuring the relative voltage of cell.

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

- a) Write a note on instrumentation and applications Polarography
- b) Discuss the general principle, instrumentation and application of Amperometry.

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

- a) Define chromatography. Give a brief note on paper chromatography
- b) Define the term
 - i. Isocratic elution
 - ii. Gradients elution,
 - iii. Normal phase chromatograpy
 - iv. Eluents