

Total No. of Questions : 6]

SEAT No. :

P1986

[5145]-404

[Total No. of Pages :2

Second Year B. Pharmacy

244 : PHARMACEUTICAL ANALYSIS - II

(2013 Pattern) (Semester-IV)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Answers to the two sections should be written in separate answer books.*
- 3) *Figures to the right indicate full marks.*

SECTION-I

Q1) Explain in detail different types of conductometric titration curves. Write advantages of conductometric end point detection. **[10]**

OR

Discuss in detail types of polarographic techniques. Write applications of polarography. **[10]**

Q2) Attempt any five of the following. **[15]**

- a) Explain in brief principle of amperometry.
- b) Explain effect of dilution on specific, molecular and equivalent conductance.
- c) Discuss measurement of electrode potential.
- d) Write about biamperometric titrations.
- e) Classify different electrodes used in potentiometry.
- f) Write role of supporting electrolyte and maxima suppressors in polarography.
- g) What is half wave potential? Explain different parts of polarogram.

Q3) Write notes on any two of the following **[10]**

- a) Ion selective electrodes
- b) Conductivity meter
- c) Dropping mercury electrode
- d) High frequency titrations

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SECTION-II

Q4) Answer the following

- a) Determination of water by Karl Fisher method [5]
- b) Spectropolarimeter [5]

OR

Write principle of coulometric analysis. Discuss in detail about constant current coulometric analysis. [10]

Q5) Attempt any five of the following [15]

- a) Discuss about Optical activity
- b) Explain about determination of Refractive index
- c) Explain the terms Specific and Molar refraction
- d) Explain the different types of plane polarize light
- e) Add a note on Abbe's refractometer
- f) Give an account on Cotton effect
- g) Discuss about application of refractometry

Q6) Write notes on any two of the following [10]

- a) Oxygen combustion flask technique
- b) Determination of nitrogen by Kjeldahl's method
- c) ORD and CD curve
- d) Silver coulometer

