

SUBJECT : PHARMACEUTICAL ANALYSIS - II

Day : Saturday
Date : 17/11/2018

W-2018-4081

Time : 02.00 PM TO 05.00 PM
Max. Marks : 60

N. B. :

- 1) Question No – 1 and 5 are **COMPULSORY**. Out of remaining questions attempt **any Two** from section - I and **any Two** questions from section - II
- 2) Answers to both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION - I

- Q.1 Attempt **ANY FIVE** of the following: (10)
- a) What are the two different types of Coulometry? Give their difference
 - b) What is normal pulse polarography?
 - c) What is biamperometry?
 - d) How is moisture determined by coulometry?
 - e) What are maxima suppressors?
 - f) Enlist applications of Amperometry
- Q.2 a) Explain in detail with a diagram features polarogram (7)
b) Give advantages and disadvantages of DME (3)
- Q.3 a) Classify electrodes used in Potentiometry. Give a detailed account of pH glass electrode (7)
b) Explain various methods for end point determination in Potentiometry (3)
- Q.4 Write short notes on **ANY TWO** of the following: (10)
- a) Explain the titration curves in Amperometry
 - b) Advances in coulometric measurements
 - c) Pulse Polarography

SECTION - II

- Q.5 Attempt **ANY FIVE** of the following: (10)
- a) Explain the term specific and molar refraction
 - b) Give the factors affecting angle of rotation
 - c) What is cotton effect?
 - d) Give the effect of dilution on specific and equivalent conductance
 - e) Explain the principle involved in assay of CO₂
 - f) Give the principle involved in conductometric titration
- Q.6 a) Give an account on theory of optical activity with a note on half shade effect (7)
b) Draw a diagram of Polarimeter and explain its construction (3)
- Q.7 a) Explain in detail applications of Conductometry (10)
- Q.8 Write short notes on **ANY TWO** of the following: (10)
- a) CD and ORD
 - b) Construction and working of Abbe's Refractometer
 - c) Co-precipitation and post precipitation