



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 150410-N

Roll No.

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B. Pharm.

(SEM. IV) THEORY EXAMINATION, 2014-15
PHARMACEUTICAL ANALYSIS - II

Time : 3 Hours]

[Total Marks : 70

Note : Attempt all questions. All questions carry equal marks.

1 Answer any two questions: **7X2=14**

- What do you mean by EDTA titration? Explain different types of EDTA titration.
- Write a note on use of glacial acetic acid in non-aqueous titrations. How will you prepare and standardize 0.1M Perchloric acid solution?
- What do you mean by pM indicators? Explain theory of pM indicators.

2 Answer any two questions: **7X2=14**

- Write a note on
 - Salt bridge
 - Nernst equation
- Draw a well labelled diagram of glass indicator electrode. Explain its working.
- Discuss various types of conductometric titrations.

- 3** Attempt any four questions: **3.5X4=14**
- (a) What do you mean by TLC?
 - (b) Write various steps involved in TLC.
 - (c) Write a note on ascending and descending paper chromatography.
 - (d) Write various detection methods used in paper/Thin layer chromatography.
 - (e) Give applications of Thin layer chromatography in Pharmacy.
- 4** Attempt any four questions: **3.5X4=14**
- (a) Draw a well labelled diagram of an HPLC instrument.
 - (b) What do you mean by HETP in HPLC?
 - (c) Write a note on columns used in HPLC.
 - (d) Give basic principle involved in column chromatography.
 - (e) Write a note on thermal conductivity detector.
- 5** Attempt any two: **7X2=14**
- (a) Write basic principle involved in Karl Fischer titration. Give details about the composition of Karl Fischer reagent.
 - (b) What do you mean by Diazotization titrations? How will you prepare and standardize 0.1M Sodium Nitrite solution?
 - (c) Write the principle, instrumentation and applications of polarography.