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B.Pharm. Semester-IV (C.B.S.) Examination PHARMACEUTICAL ANALYSIS-II (Electro-Analytical and Physical Methods) Paper-3 (4T3)

Time-Three Hours]

[Full Marks-80

- N.B.: (1) Question No. 1 is compulsory.
 - (2) Solve any FOUR questions from the remaining.
 - (3) Draw neat labeled diagram wherever necessary.
 - (4) Use of electronic calculator is permitted.
 - (5) Assume suitable data wherever necessary.
- 1. Solve any FIVE of the following:
 - (a) What are the advantages of conductometric titration over normal titration method ?
 - (b) Draw neat and well labelled diagram of Abbe's refractometer.
 - (c) What do you mean by dead stop titration?

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- (e) How will you determine the end point of zero order potentiometric titration curve ?
- (f) Define specific conductance, equivalent conductance, molecular conductance and cell constant.
- What is half wave potential? Write significance of
- What do you mean by thermal methods of analysis? Explain types, instrumentation, factors affecting and applications of Thermogravimetry.
- (a) Draw neat and well labelled diagram of Dropping Mercury Electrode. Write pharmaceutical applications of polarography.
 - (b) Explain various types of amperometric titrations with suitable examples.
- (a) Write in short about various factors affecting angle of rotation.
 - (b) Explain instrumentation, working and pharmaceutical applications of polarimetry.
- What is reference and indicator electrode? Explain with suitable diagram any two reference electrode.

(b) Add note on Ion Selective Electrode.

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- 6. (a) Write principle, instrumentation and pharmaceutical applications of DTA.
 - What is Coulometry? What are its various types? Describe its principle and instrumentation.
- 7. Write short notes on any THREE of the following :
 - (a) Electrogravimetry
 - Pulse polarography
 - High frequency titration
 - Conductometer
 - (e) Optical rotatory dispersion. 15

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