

Code No: B134101

**R13****SET - 1****IV B.Pharmacy I Semester Advanced Supplementary Examinations, Feb/March - 2018  
PHARMACEUTICAL ANALYSIS-II**

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)  
2. Answering the question in **Part-A** is Compulsory  
3. Answer any **THREE** Questions from **Part-B**

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**PART -A**

1. a) Define chromophore and auxochrome. (4M)
- b) Write the applications of ESR. (3M)
- c) Write the principle involved in XRD. (4M)
- d) What are the advantages and disadvantages of column chromatography? (4M)
- e) Define Retention time and resolution. (4M)
- f) Mention the different types Electrophoresis. (3M)

**PART -B**

2. a) Explain about UV-Visible spectrophotometer with neat diagram. (10M)
- b) Write the applications of IR spectroscopy. (6M)
3. a) Write the basic principle and instrumentation of NMR. (10M)
- b) Write the applications of mass spectrometry. (6M)
4. a) Explain about optical rotatory dispersion and circular dichroism (9M)
- b) Write the principle and applications of differential scanning calorimetry. (7M)
5. a) Discuss the principle and experimental techniques of TLC. (10M)
- b) Write the principle involved in ion exchange chromatography. (6M)
6. a) Write the principle and instrumentation of HPLC. (10M)
- b) Differentiate TLC and HPTLC. (6M)
7. a) Explain the principle and instrumentation of paper electrophoresis. (9M)
- b) Write the principle involved in LCMS. (7M)

