Code No: B134101 **R13** SET - 1

IV B. Pharmacy I Semester Regular/Supplementary Examinations, Oct/Nov - 2017
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) Write the basic principle involved in IR spectroscopy. (4M)
   b) What is molecular ion peak and base peak? (4M)
   c) State the applications of DTA. (3M)
   d) What are the types of resin used in ion exchange chromatography? (3M)
   e) Define HETP and Retention Factor. (4M)
   f) Write the applications of LCMS. (4M)

PART –B

2. a) Derive beer and lamberts law and explain the deviations from the laws. (9M)
   b) Write the instrumentation and sampling techniques in IR spectroscopy. (7M)

3. a) Write the basic principle and instrumentation of Mass Spectrometry. (10M)
   b) Discuss the principle involved in ESR. (6M)

4. a) Explain the basic principle and applications of atomic absorption spectroscopy. (9M)
   b) Write a note on Radio Immuno Assay. (7M)

5. a) Discuss the principle and types of paper chromatography. (10M)
   b) Write the principle involved in gel chromatography. (6M)

6. a) Explain the principle and instrumentation of GLC. (10M)
   b) Write the applications of HPTLC. (6M)

7. a) Explain the principle and instrumentation of LCMS. (10M)
   b) Write the applications of Electrophoresis. (6M)

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