Subject Code: B134101/R13

IV B. Pharmacy I Semester Regular Examinations Nov. - 2016

PHARMACEUTICAL ANALYSIS-II

Time: 3 hours **Max. Marks: 70**

Question Paper Consists of **Part-A** and **Part-B**
Answering the question in **Part-A** is Compulsory,
Three Questions should be answered from **Part-B**

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PART-A

1. (a) What are the criteria for solvent selection in UV methods of analysis?
   (b) State Hooke's Law and its applications.
   (c) How NMR can differentiate isomers?
   (d) What is Resolution? Give its significance.
   (e) What is the relationship between HETP and Column efficiency?
   (f) Give the applications of thermal analysis.

[4+3+3+4+4+4]

PART-B

2. (a) State Beer-Lamberts law. Give its applications and deviations.
   (b) Explain the various factors affecting stretching vibrations.

[8+8]

3. (a) Explain the shielding and deshielding effect with suitable examples.
   (b) Discuss the different Mass Analyzers of Mass Spectrometry.

[6+10]

4. (a) Give the principle involved in XRD analysis.
   (b) Differentiate DSC and DTA

[8+8]

5. (a) Write a note on adsorbents used in TLC.
   (b) Discuss about the ion exchange resins.

[8+8]

6. (a) Discuss in detail the working principle of detectors used in GC.
   (b) Differentiate isocratic and gradient elution.

[10+6]

7. (a) Explain the working principle of Gel Electrophoresis.
   (b) Give the applications of Electrophoresis.

[10+6]

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