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Roll No

PY - 602

B.Pharmacy VI Semester

Examination, June 2016

Pharmaceutical Analysis - II

Time: Three Hours

Maximum Marks: 70

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- **Note:** i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
 - ii) All parts of each question are to be attempted at one place.
 - iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
 - iv) Except numericals, Derivation, Design and Drawing etc.
- 1. a) Define chromatography with suitable examples.
 - b) Define Beer-Lambert Law.
 - c) Differentiate between HPLC and HPTLC.
 - d) Write the principle of UV/VIS spectrophotometry and describe its instrumentation.

Or

Explain the Woodward Fisher rules with some suitable example.

- 2. a) What is Phosphorescence?
 - b) Discuss the principle of IR spectrophotometry.
 - c) Differentiate between IR and FTIR.
 - d) What is IR Spectrophotometry? Write its application in Pharmaceutical research.

Or

Write a detailed note on fluorimetry.

- a) Enlist the mane of mass analyzers.
 - b) What do you mean by Base peak in mass spectrometry?
 - c) Give the application of X-ray diffraction.
 - Explain the principle of X-ray diffraction analysis.

Or

What are different ionization techniques in mass spectrometry?

- a) Enlist the detectors and sources used in atomic absorption spectroscopy.
 - b) Give in short the principle of NMR spectroscopy.
 - Differentiate between 1HNMR and 13 CNMR principles.
 - d) What do you mean by Chemical Shift, Discuss the factor affecting chemical shift values in NMR spectroscopy.

Or.

Write the instrumentation and application of NMR spectroscopy.

- 5. a) Discuss the principle of Flame Photometry.
 - b) Discuss the principle of Radioimmunoassay.
 - c) Write the working of flame photometer.
 - d) Discuss in detail the application of Radioimmunoassay.

Or

Write a brief notes on applications of flame photometry.

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