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## PY - 602

## B.Pharm. VI Semester

Examination, June 2015

## Pharmaceutical Analysis-II

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Time: Three Hours

Maximum Marks: 70

- 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.
  - State the important characteristics of solid support in GLC.
    - What are the advantages of TLC over paper chromatography? rgpvonline.com
    - Explain Hypsochromic and bathochromic shift.
    - Draw schematic diagram of double beam UV spectrophotometer and discuss Four main type of transitions in it.

OR

Write advantages of FT-IR over dispersive IR. Explain working of Michelson interferometer.

- Give approximate position of characteristic infrared bands in the following compounds:
  - CH<sub>2</sub>-CO-CH<sub>2</sub>
  - ii) CH<sub>2</sub>-CH<sub>2</sub>-OH, b) Why water is not used as a solvent in IR spectroscopy?
  - What is shielding and deshielding effect?
  - What is PNMR? Explain its principle in brief.

What are different ionisation techniques in Mass spectrometry? Discuss chemical ionisation.

- What is base peak and metastable peak in Mass 3. a) spectrometry?
  - b) Write important features of Mass Spectrum of alkanes.
  - Write in brief casic principle of atomic absorption spectroscopy.
  - Explain principle of G-ray diffraction analysis.

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Explain principle of fluorometric analysis.

- What is spin-spin coupling? Explain. rgpvonline.com 4. a)
  - Write applications of X-ray analysis.
  - Explain Fluorescence and phosphorescence. What are Radio-immuno assay? Explain their principle. XÌ

What are different type of detectors used in HPLC? Explain UV detector:

- What is reverse phase HPLC? 5. a)
  - Explain Beer's and Lambert's law.
  - How IR helps in structure elucidation of a compound?
  - What is HPTLC? Compare HPLC and HPTLC analysis. OR

What is flame photometry? Write the working of a flame photometer.