

PY - 602
B.Pharm. VI Semester
Examination, June 2014
Pharmaceutical Analysis-II

Time : Three Hours

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Maximum Marks : 70

Note: Attempt any five questions.

- ① a) Explain sample handling in IR spectroscopy. Elaborate the advantages of FT-IR. 7
b) Discuss the factors affecting vibrational frequencies in IR. 7
- ② Discuss the principle of Radioimmunoassay. Explain its various applications. 14
3. a) Define base peak, parent ion peak and metastable peaks in Mass spectroscopy. 5
b) Elaborate various ionization techniques in mass spectroscopy. 9
- ④ What are the factors affecting chemical shift values in NMR spectroscopy? Elaborate the applications of NMR spectroscopy. 14

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5. Discuss the instrumentation and applications of HPLC. 14
6. How fluorescence differs from phosphorescence? Discuss various factors affecting fluorescent intensity. How thiamine is determined fluorimetrically? 14
7. Describe (any two) 7+7
 - a) Transitions in UV spectroscopy
 - b) Beer-Lambert law
 - c) Interpretation of IR spectrum
8. Write short notes on (any two): 7+7
 - a) Detectors used in GLC
 - b) Fragmentation rules
 - c) Spin-spin coupling

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