

341816(41)

B. Pharmacy (8th Semester)
Examination, Nov.-Dec., 2016

Pharmaceutical Analysis-III (Instrumental)

Time Allowed : 3 hours

Maximum Marks : 70

Note : Attempt any five questions. The figures in the right-hand margin indicate marks.

1. Write the principle, instrumentation and application of atomic absorption spectroscopy. [14]
2. What is chromatography? Classify with suitable examples. Write the instrumentation and application of Gas chromatography. [14]
3. Discuss the Bragg's Law of X-Ray powder diffraction patterns. Write a comprehensive account on the X-Ray Diffraction methods with particular reference to Debye-Scherrer powder camera. [14]
4. What do you understand by NMR spectroscopy? Explain in brief about chemical shift with factors. [14]

(Turn Over)

[2]

5. Describe an UV vis spectro photometer with a neat labelled block diagram and explain its instrumentation and application. [14]
6. Explain basic principle, theory, instrumentation and application of Mass spectrometry.
7. Write short notes on (any two) : [7×2]
 - (a) Fluorimetry
 - (b) Flame photometry
 - (c) Fragmentation pattern in Mass
 - (d) Molecular Vibration