



Roll No.

**BP-701 T/PY-701 (CBGS)**

**B.Pharmacy VII Semester (PCI Scheme)/  
(Non-PCI Scheme)**

Examination, November 2019

**Choice Based Grading System (CBGS)**

**Instrumental Methods of Analysis**

*Time : Three Hours*

*Maximum Marks : 75*

- Note:* i) Attempt any five questions.  
ii) All questions carry equal marks.  
iii) Draw neat and well labeled structures wherever required.

1. Discuss principles and instrumentation of UV visible spectroscopy.
2. What do you mean by fundamental modes of vibrations in poly atomic molecules? Write about detectors used in IR spectroscopy.
3. Write an exhaustive note on principle, instrumentation and applications of Flame Photometry.
4. Discuss theory, instrumentation and advantages of high performance liquid chromatography (HPLC).
5. Give factors affecting fluorescence, write concepts of singlet, doublet and triplet electronic states.

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6. Discuss theory, instrumentation and applications of Gas chromatography.
7. Give principle, instrumentation and applications of Nephelo turbidimetry.
8. Write short note on any two of followings :
  - a) Gel chromatography.
  - b) Thin layer chromatography.
  - c) Atomic absorption spectroscopy.

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