



**BL-3102**

Seat No. \_\_\_\_\_

**M. Pharm. (Sem. II) Examination**

**March / April - 2014**

**(PY20102) Modern Pharmaceutical Analysis**

Time : 3 Hours]

[Total Marks : 70

- Instructions :**
- 1** Attempt any five questions out of seven.
  - 2** Make suitable assumptions wherever necessary with figure and table.
  - 3** Figures to the right indicate full marks.
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- 1**
    - a** Discuss applications of analytical methods to product obtained through genetic Engineering and amino acid sequence analysis.
    - b** Write detailed note on regulatory requirements in pharmaceutical analysis as per US-FDA.
  - 2**
    - a** Discuss solid state analysis of drug substances, related substances and impurities.
    - b** Describe applications of various analytical techniques in formulation analysis.

- 3 a Write a note on analysis of any two solid oral dosage forms.
- b Write a note on analysis of injectable dosage forms.
- 4 a Write a note on compendia testing.
- b Write a note on automated analysis with its applications.
- 5 a Discuss various methods for evaluation of herbal drugs.
- b Write a note on quality control of radio pharmaceuticals.
- 6 a Write a note on radiochemical methods of analysis.
- b Write analysis of any two cosmetic preparations.
- 7 a Discuss applications of analytical methods to product obtained through tryptic mapping and isoelectric focusing.
- b Discuss various validation parameters for analytical method as per ICH guidelines.
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