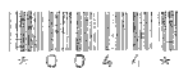


B. Pharm.- IV Eighth Semester  
**35183 : Pharmaceutical Analysis - IV : T-8.3**

P. Pages : 1

Time : Three Hours



AU - 0696

Max. Marks : 60

- Notes :
1. All question carry equal marks.
  2. Answer **any five** questions out of seven question.
  3. Assume suitable data wherever necessary.
  4. Diagrams and Chemicals equations should be given wherever necessary.
  5. Discuss the reaction, mechanism wherever necessary.

- |    |    |                                                                             |    |
|----|----|-----------------------------------------------------------------------------|----|
| 1. | a) | Define- Linear regression, Correlation coefficient and normal distribution. | 6  |
|    | b) | Discuss the interrelation of analytical data.                               | 6  |
| 2. | a) | What is chromatography, classify them.                                      | 6  |
|    | b) | Explain principle of HPLC in detail.                                        | 6  |
| 3. | a) | What is Electron spin Resonance <ESR> discuss in detail.                    | 6  |
|    | b) | How will you interpret the mass spectra of compound explain with example.   | 6  |
| 4. | a) | Discuss the spin-spin coupling and chemical shift in detail.                | 6  |
|    | b) | Write about application of NMR in detail.                                   | 6  |
| 5. | a) | Discuss the instrumentation of mass spectroscopy.                           | 6  |
|    | b) | What is X-ray diffraction, discuss in detail.                               | 6  |
| 6. | a) | Explain in detail theory of HPTLC.                                          | 6  |
|    | b) | Discuss about quality review and quality documentation.                     | 6  |
| 7. |    | Write short note <b>any two</b> .                                           | 12 |
|    | a) | ISO 9000                                                                    |    |
|    | b) | Retention time and Retention volume.                                        |    |
|    | c) | MS-MS.                                                                      |    |
|    | d) | Radio immuno assay.                                                         |    |

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