

35183 : Pharmaceutical Analysis - IV : T-8.3

P. Pages : 1

Time : Three Hours



AW - 2327

Max. Marks : 60

- Notes :
1. All question carry equal marks.
 2. Answer **any five** question.
 3. Diagrams and chemical equations should be given wherever necessary.
 4. Illustrate your answer necessary with the help of neat sketches.

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|----|----|--|----|
| 1. | a) | Outline the importance of TQM in pharmaceutical. | 6 |
| | b) | Write a detailed note on WHO guidelines. | 6 |
| 2. | a) | Describe the terms retention volume & retention time? Discuss the rate & plate theory. | 6 |
| | b) | Write a detailed note on HPTLC. | 6 |
| 3. | a) | Discuss the instrumentation of HPLC. | 6 |
| | b) | Write a detailed note on detectors used in HPLC. | 6 |
| 4. | | Write the principle & instrumentation of NMR spectroscopy. | 12 |
| 5. | | Write in detail principle & instrumentation of Mass Spectroscopy. | 12 |
| 6. | | Write the theory involve in gas chromatography & its applications. | 12 |
| 7. | | Write short note on any two . | 12 |
| | a) | Radioimmunoassay. | |
| | b) | ESR | |
| | c) | X-ray diffraction | |
| | d) | Applications of NMR. | |
