

AV – 2359

Eighth Semester B. Pharm. IV Examination

PHARMACEUTICAL ANALYSIS – IV

Paper - T-8.3

(USC – 35183)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 60

- Note :** (1) All question carry equal marks.
(2) Answer any **Five** questions from out of **Seven** question from section B.
(3) Assume suitable data wherever necessary.
(4) Diagrams and Chemical equations should be given wherever necessary.
(5) Discuss the reaction, mechanism wherever necessary.

1. (a) What is column chromatography discuss in detail. 6
(b) Discuss instrumentation of gas chromatography in detail. 6
2. (a) Discuss the Regulatory control and regulatory drug analysis in detail. 6
(b) Write about validation of equipment and validation of analytical procedure. 6
3. (a) Explain the signals in NMR spectra with example. 6
(b) Discuss the instrumentation of NMR. 6
4. (a) Disucss the application of mass spectroscopy in detail. 6
(b) Discuss the Laue photographic method in detail. 6
5. (a) Discuss the factors which affects the chemical shift in NMR. 6
(b) Write the application of HPLC in pharmaceutical analysis. 6

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6. (a) Discuss the Bragg's x-ray spectrophotometry in detail. 6
- (b) Write application of x-ray diffraction in detail. 6
7. Write short notes (any Two) :—
- (a) Detectors used in HPLC.
- (b) Coupling constant.
- (c) Ion sources in Mass.
- (d) Application of Radio immunoassay. 12

