

AV – 2477

Third Year Pharm. D. Examination

PHARMACEUTICAL ANALYSIS

Paper – 3.2

(USC – 35122)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 70

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- Note :** (1) Answer any **Five** questions from Q. No. **Two** to **Nine**.
(2) Question No. **One** is compulsory.
(3) Due credit will be given to neatness and adequate dimensions.
(4) Illustrate your answer wherever necessary with the help of neat sketches.
(5) Use pen of **Blue/Black** ink/refill only for writing the answer book.

1. Solve any **Five** questions from following :—

- (a) Write applications of X – Ray diffraction.
- (b) What is ISO 9000 ?
- (c) Define DTA. Write its applications.
- (d) Write a note on ICH guidelines.
- (e) What is the importance of R_f value ?
- (f) Write a note on – Types of paper chromatography.
- (g) What is Electrophoresis ? Give its applications.

3×5=15

2. Explain validation techniques. 11

3. Describe the theory, instrumentation and application of HPLC. 11

4. Write the principle of gas chromatography and highlight the detectors used in Gas Chromatography. 11

AV-2477

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5. (a) What is Ilkovic equation and write its applications ? 5
(b) Elaborate the importance of polarographic maxima and suppressors on polarographic wave. 6
6. Describe the construction of conductivity cell and classify conductometric titrations. 11
7. Write nernst equation. Classify potentiometric titrations. 11
8. Explain the technique and application of Gel filtration and affinity chromatography. 11
9. Describe the instrumentation and, process and applications of Amperometric titrations. 11

