

M.Pharmacy DEGREE EXAMINATION.

(New Regulations)

First Year

Branch V — Pharmaceutical Analysis

Paper II — PHARMACEUTICAL ANALYSIS

Time : Three hours

Maximum : 100 marks

Answer any FOUR questions.

All questions carry equal marks.

1. Define the following terms in Pharmaceutical Analysis. State how they are calculated and relevant in the quality control of pharmaceutical dosage forms.

- (a) Standard deviation
- (b) % CV
- (c) Precision
- (d) Accuracy
- (e) Standard Error.

(5 × 5 = 25)

2. Discuss the layout/design of a Quality Control laboratory. What are Good Laboratory Practice regulations? (25)

3. Discuss about the following packaging materials and the methods of testing the same : (25)

- (a) Plastics
- (b) Rubber closures.

4. State why sample preparation is essential in analysing drugs in biological samples. Discuss the various methods of liquid-liquid extraction. (25)

5. Explain the following : (25)

- (a) Hardness and friability
- (b) Dissolution tests
- (c) Content uniformity
- (d) Weight variation test.

6. What do you understand by the term "Specifications"? Discuss the term with reference to raw materials and finished formulations. (25)