

[KD 282]

APRIL 2001

M.Pharmacy DEGREE EXAMINATION.

(New Regulations)

First Year

Branch V — Pharmaceutical Analysis

Paper III — PHARMACOGNOSTICAL AND
BIOLOGICAL METHODS OF PHARMACEUTICAL
ANALYSIS

Time : Three hours

Maximum : 100 marks

Answer any FOUR questions.

All questions carry equal marks.

1. (a) State how microchemical tests are used to identify plant constituents.

(b) Explain how quantitative microscopy is useful in determining adulteration of crude drugs. (25)

2. Elaborate on the chromatographic techniques and the methodology adopted for the quantitative analysis of phytoconstituents. (25)

3. (a) Describe the procedure for the determination of LD 50.

(b) Describe the bioassay of aut^aocoids. (25)

4. Write in brief about the following : (25)

(a) Living contaminants in vaccine^s

(b) Assay of tetanus toxoid.

5. Explain the theoretical principle of Radio immunoassay. What are the different techniques of RIA? Explain in detail about ELISA technique. (25)

6. Write notes on the following : (25)

(a) Bacterial Endotoxin test

(b) Bioassay of insulin.