

Faculty of Pharmacy
B.Pharm. Semester-V Examination
PHARMACOGNOSY-III

Paper—T-5.4

Sections—A & B

Time—Three Hours]

[Maximum Marks—60

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry marks as indicated.
- (2) Answer **ALL** questions from Section A and **ALL** questions from Section B.
- (3) Due credit will be given to neatness and adequate dimensions.
- (4) Diagrams and Chemical equations should be given wherever necessary.
- (5) Use pen of Blue/Black ink/refill only for writing the answer book.

SECTION—A

1. What do you mean by quantitative microscopy and explain lycopodium spore method. 6
2. Describe biosynthesis of Tropane alkaloids **OR** Shikimic acid pathway. 6

3. Write short notes on (any **TWO**) : 6
 - (a) Plant cell inclusions
 - (b) Reactions of cell walls
 - (c) Leaf constants.
4. Explain medicinal agents from marine sources. 6
5. Describe biosynthetic pathway for steroidal drug **OR** Indole alkaloids. 6

SECTION—B

6. Classify chromatographic techniques and explain in detail about column chromatography. 6
7. Write in detail about TLC and its application in evaluation of herbal drugs. 6

OR

Give the pharmacognostic and phytochemical account of Digitalis.

8. Give the pharmacognostic and phytochemical account of following drugs (any **TWO**) : 6
 - (i) Aswagandha
 - (ii) Squill
 - (iii) Liquorice
 - (iv) Senna.
9. Describe in detail about gas chromatography and its application in evaluation of herbal drugs. 6

OR

Define glycosides, give its general properties and classify glycosides with examples.

10. What are saponin glycosides ? Write in detail about ginseng **OR** Dioscorea. 6