

[Total No. of Questions - 9] [Total No. of Printed Pages - 3]  
(2124)

1697

B. Pharmacy 5th Semester Examination

Pharmacognosy-IV (OS)

HBP-307

Time : 3 Hours

Max. Marks : 80

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Attempt five questions in all. Select one question each from Section A, B, C and D. Section E is compulsory.

**SECTION - A**

- 1 Give the biological sources, constituents and uses of the following:
  - (a) Cinchona
  - (b) Catharanthus
  - (c) Ergot
  - (d) Tobacco (4×4=16)
  
2. (a) Give the microscopical features, chemical constituents and uses of the following:
  - (i) Rauwolfia
  - (ii) Belladonna (8)

[P.T.O.]

- (b) Discuss the importance of tropane alkaloids (8)

### SECTION - B

3. Describe the methods of preparation, chemistry and uses of the following:

(a) Vegetable Pepsin

(b) Trypsin (8+8=16)

4. Write short notes on the following:

(a) Kurchi

(b) Ephedra (8+8=16)

### SECTION - C

5. Describe in detail the biosynthesis of glycosides. (16)

6. Write notes on the following:

(a) Plant sweeteners.

(b) Role of aromatic plants in national economy. (6+10=16)

### SECTION - D

7. Enumerate different methods of chromatographic analysis. Discuss TLC in detail. (16)

8. Write exhaustive notes on the following:

(i) HPLC

(ii) Paper chromatography (8+8=16)

### SECTION - E [Compulsory Question]

9. Give short answers:

(a) Detecting reagents for TLC.

(b) Enflourage.

(c) Pancreatin.

(d) Identification test for Caffeine.

(e) Opium alkaloids.

(f) Therapeutically active part of glycosides.

(g) Pseudo alkaloids.

(h) Carotenoids. (8×2=16)