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B. Pharmacy 5th Semester Examination

Pharmacognosy-IV (O.S.)

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) Hyoscyamus
 - (b) Belladonna
 - (c) Rawolfia
 - (d) Withania **(4×4=16)**
2. (a) Discuss the importance of indole alkaloids.
 - (b) Give the microscopical features, chemical constituents and uses of the following:
 - (i) Datura
 - (ii) Catharanthus **(8+8=16)**

SECTION - B

3. Describe the method of preparation, chemistry and uses of the following:
 - (a) Papain
 - (b) Diastase **(8+8=16)**

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4. Write short notes on the following:

(a) Tea

(b) Solanum

(8+8=16)

SECTION - C

5. Describe in detail the biosynthesis of Terpenoids.

(16)

6. Write notes on the following:

(a) Plant bitters

(b) Role of medicinal plants in national economy. **(8+8=16)**

SECTION - D

7. What are different chromatographic techniques? How these techniques are applied in the separation of phytoconstituents?

(16)

8. Write exhaustive notes on the following:

(a) GLC

(b) TLC

(8+8=16)

SECTION - E

[Compulsory Question]

9. Give short answer:

(a) Protoalkaloids

(b) Economic importance of aromatic plants

(c) Building Blocks of Terpenoids

(d) Uses of Ephedra

(e) Common detecting reagents for alkaloids

(f) Pepsin

(g) Flavonoids

(h) Cinchona.

(8×2=16)