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# **Faculty of Pharmacy**

# B.Pharm. Fifth Semester (C.B.S.) Examination

#### PHARMACOGNOSY AND PHYTOCHEMISTRY—III

(Chemistry of Natural Products)

**Paper—IV** (5-T-4)

Time—Three Hours]

[Full Marks—80

**N.B.** :— (1) Question No. 1 is compulsory.

- (2) Solve any **FOUR** questions from the remaining.
- (3) Draw neat labeled diagram wherever necessary.
- (4) Discuss the reaction, mechanism wherever necessary.
- 1. Solve any **five** questions of the following:

 $5 \times 4 = 20$ 

Contd.

- (a) Write a note on theory of mass transfer.
- (b) Write mevalonic acid pathway for terpenoids.
- (c) Write method of extraction for resins from plant material.
- (d) Differentiate between Tolu Balsam and Peru Balsam.

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(e)	Write isolation and purification method for Camphor
(f)	Differentiate between transverse section of Caraway

- and Dill fruits.
- Write a note on Peppermint.
- Classify extraction method. Write an account on Super-critical fluid extraction and maceration. 15
- What is chromatography? Describe general principles of adsorption, ion-exchange and size-exclusion chromatography. 8
  - (b) Explain high performance liquid chromatography with well-labelled diagram.
- Classify resins and resin combinations with suitable examples. 8
  - (b) Write pharmacognostic account of Fennel and Ginger.

- Write structural elucidation of camphor by physical 5. methods. 8
  - (b) Write isolation, purification and chromatographic profile of Eugenol.
- Write in brief about high performance thin layer 8 chromatography method.

(b) Describe pharmacognostic account of clove with emphasis on its microscopy.

Write short notes (any three):  $5 \times 3 = 15$ 

- Soxhlet extraction
- Colophony
- Cinnamon
- Asafoetida
- Boswellia.

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