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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 :

5×4=20

- (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.
- (g) Write a note on Peppermint.
- Classify extraction method. Write an account on Super-critical fluid extraction and maceration.
- (a) What is chromatography? Describe general principles of adsorption, ion-exchange and size-exclusion chromatography.
 - (b) Explain high performance liquid chromatography with well-labelled diagram. 7
- (a) Classify resins and resin combinations with suitable examples.
 - (b) Write pharmacognostic account of Fennel and Ginger.

(a) Write structural elucidation of camphor by physical

- (b) Write isolation, purification and chromatographic profile of Eugenol 7
- (a) Write in brief about high performance thin layer chromatography method.

- (b) Describe pharmacognostic account of clove with emphasis on its microscopy. 7
- Write short notes (any three): 5×3=15
 - (a) Soxhlet extraction
 - (b) Colophony
 - (c) Cinnamon
 - (d) Asafoetida
 - (e) Boswellia.

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