

Time: Three Hours]

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[Full Marks: 80

(Contd.)

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

PHARMACOGNOSY AND PHYTOCHEMISTRY—III (Chemistry of Natural Products)

Paper-4

| Note:—(1) Q. No. 1 is compulsory. | | | |
|-----------------------------------|------------------|---|------------|
| | | Attempt any four questions from the remaining. | |
| | | (3) Draw neat labelled diagram wherever necessary. | |
| 1. | Solve any five : | | |
| | (a) | Describe the principle and procedure of paper chromatography. | |
| | (b) | Write a short note on Maceration. | |
| | (c) | Give biological source, chemical constituents and uses of caraway. | |
| | (d) | Differentiate between Tolu balsam and Peru balsam. | |
| | (e) | Define and classify resins with examples, | |
| | (f) | Write a note on theory of mass transfer. | |
| | (g) | Add a note on Benzoin. | ×4=20 |
| 2. | (A) | Define and classify volatile oil with example. Give the general extraction method for volat | tile oils. |
| | (B) | Write Pharmacognostic account on Cinnamon bark. | 7 |
| 3. | (A) | Give isolation, purification and chromatographic profiles for Eugenol. | 8 |
| | (B) | Write a short note on High performance their layer chromatography. | 7 |
| 4. | (A) | Write structure elucidation of camphor. | 8 |
| | (B) | Write pharmacognostic account of Eucalyptus. | 7 |
| 5. | Def | fine chromatography. Enlist different chromatographic techniques. Write a detailed account | on their |
| | laye | er chromatography and its applications. | 15 |
| | | | |



NWN-9230



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- Give biological source, chemical constituents, chemical test and uses of the following (any three):
 - (a) Tulsi
 - (b) Ginger
 - (c) Clove
 - (d) Nutmeg

(e) Colophony. $5 \times 3 = 15$

- Write short notes on (any three):
 - (a) Super critical fluid extraction
 - (b) Structure elucidation of Taxol
 - (c) Turmeric
 - (d) Asafoetida

www.FirstRanker.com (e) Fennel. $5 \times 3 = 15$