

## Pharmacognosy - IV

Sem - VIII (P)

32 : 2nd half, 12-AM(h)

Con. 8068-12.

(REVISED COURSE)

CN-8234

(2 Hours)

[ Total Marks : 40

- N.B. :** (1) Question No. 1 is **compulsory**.  
 (2) Answer any **four** questions from the remaining Question Nos. 2 to 7.  
 (3) Draw **diagrams** and **structures** wherever **appropriate**.

1. (a) Give different chemical classes of pentacyclic saponins and describe in detail any one herb containing pentacyclic saponins. 4
  - (b) Write Biological source, chemical constituents and method of extraction of volatile oil from the following :— 4
    - (i) Peppermint
    - (ii) Coriander.
  2. (a) Differentiate between cardinolides and bufenolides with one example each describing Biological source, Chemical constituents. 4
  - (b) What are irridoides ? Describe one drug containing irridoides, used for treatment of liver ailments. 4
  3. (a) Describe in detail furanocoumarin containing herb and give its therapeutic importance. 4
  - (b) Write a note on Cytotoxic compounds from marine sources. 4
  4. (a) Give basic nucleus for flavonoids. Write sources of rutin and various chemical tests to detect flavonoids. 4
  - (b) Describe various methods for preparation of plant extracts. How the extracts are evaluated for the content of phytoconstituents ? 4
  5. (a) Write biosynthesis of diterpenoidol nucleus. Describe a plant containing diterpenoids giving biological source, chemical constituents and uses. 4
  - (b) Write Biological source, Chemical constituents and Adulterants of clove. 4
  6. (a) What are resins ? Describe various types of resins with one example each. Write chemical tests and preparation of colophony. 4
  - (b) Write about phytotoxins, their poisonous effects and treatment for the following plants. 4
    - (i) Abrus
    - (ii) Aconite.
  7. (a) Describe in detail pharmacognosy and phytochemistry of Cinnamon. 4
  - (b) Write Biological source, Chemical constituents and uses of the following :— 4
    - (i) Artemisia
    - (ii) Sandalwood.
-