

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[B.PHARM 0524]

MAY 2024

Sub. Code: 2056

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
PCI Regulation 2017 – SEMESTER V
PAPER IV – PHARMACOGNOSY AND PHYTOCHEMISTRY II

Q.P. Code: 562056

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Describe the collection, constituents with uses and chemical test of Digitalis leaf.
2. Explain the significance of radioactive isotopes in investigation of biogenetic studies.
3. Elaborate on various chromatographic techniques employed in phytochemical analysis.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Write a note on Asafoetida.
2. Explain the term alkaloids and recall the general chemical test for alkaloids.
3. Summarize the use of electrophoresis in phytochemical analysis.
4. Write a note on Clove.
5. Mention the chemical constituents and therapeutic use of fennel and senna.
6. Summarize the constituents and uses of Pterocarpus and Guggul.
7. Mention biosources, therapeutic uses of Bitter Almond and Carotenoids.
8. Outline line Isolation, Identification and Analysis of Curcumin.
9. Summarize the Industrial production and utilization of Sennosides.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Recall Mydriatic drug isolated from plant origin with structure.
2. Give the structure of Rutin.
3. Mention the uses of Colophony.
4. Recall the constituents of Ginger.
5. What are Lignans?
6. Mention the spray reagents used to detect aminoacids.
7. Write the confirmatory test for Aloes.
8. Write the therapeutic use of Artemisinin.
9. Mention the constituents of Opium.
10. Write therapeutic use of Forskolin.
