

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

[BPHARM 1022]

OCTOBER 2022
(MARCH 2022 EXAM SESSION)

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. Discuss the modern methods involved in the extraction of phytoconstituents.
2. Define and classify glycosides. Write a note on Digitalis.
3. Write the methods of isolation and identification of
 - a) Quinine
 - b) Glycyrrhetic acid.

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

1. Explain about acetate pathway.
2. Write a note on clove.
3. Discuss the method of isolation and identification of Curcumin.
4. Give an account on industrial method of production and utilization of Sennosides.
5. Write the biological source, chemistry and applications of Taxus.
6. Write a note on any one Solanaceous drug.
7. Give an account various method of feeding radioactive isotopes into plants.
8. Write a note on production of Podophyllotoxin.
9. Describe the biological source, chemistry and uses of Gentian.

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

1. What is the principle involved in counter current extraction?
2. Name the steroidal resin used as antihyperlipidemic and write its biological source.
3. How the deoxy sugar in digitalis is identified?
4. Write the chemical constituents and uses of Asafoetida.
5. Write the biological source and uses of Curcumin.
6. Mention the uses of Diosgenin.
7. Write the chemical constituents and uses of Sarpagandha root.
8. Name the secondary metabolites, biosynthesized through shikimic acid pathway.
9. Write the structure and uses of Artemisinin.
10. Mention the general chemical tests used for the identification of alkaloids.
