

B. Pharm. 3rd year 1st semester examination 2025

Subject: Pharmacognosy and Phytochemistry II

Time: 3 hours

Full marks: 75

(Answer any 5 questions taking at least 2 from each group)

Group A

1. Describe schematically the method of isolation of podophyllotoxin, citral and reserpine.
5 x 3 = 15
2. Write down the industrial production, estimation and utilization of Forskolin and diosgenin.
7.5 x 2 = 15
3. Write notes on
 - a. Radioactive tracer technique
 - b. Biosynthesis of terpenes
 - c. Analysis of artemisinin5 x 3 = 15
4. Discuss the identification tests for menthol, curcumin, reserpine and caffeine. Explain schematically the shikimic acid pathway of plant metabolism.
10 + 5 = 15

Group : B

Instructions: Answer any five questions taking at least two from each group.

5. Write the property of fixed oil. Write the source, chemical constituents and uses of Castor oil and Arachis oil. 15
6. What is extraction? Discuss the various method of extraction generally adopted in the laboratory including Soxhlet hot extraction. 15
7. Write short notes on Tannin and alkaloid. 15