

B. Pharm. 2nd Year 2nd Semester Examination 2025

Subject: Pharmacognosy and Phytochemistry I

Time: 3 hours

Full marks: 75

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

Group A

1. Define and classify alkaloids with suitable examples. Write down different methods of extracting volatile oils and individual terpenes. How will you ensure the presence of volatile oil in crude drugs? Write down the composition of resins. 5 + 5 + 2 + 3 = 15

2. Classify glycosides on the basis of aglycone moieties with suitable examples. Distinguish between hydrolysable and condensed tannins with suitable examples. Write down the qualitative tests for the identification of tannins. 6 + 5 + 4 = 15

3. Write notes on

a) In vitro conservation of plants

b) Plant cell suspension culture

c) Hardening of in vitro-derived plants 5 x 3 = 15

Group B

4. Define Pharmacognosy. What is crude drug, give examples? Write the chief function of Pharmacognosist. Distinguish organize and unorganize crude drug with suitable examples. 15

5. Classify the crude drug chemically and pharmacologically including its advantage and disadvantages. 15

6. Write the possible way adulteration of crude drugs with suitable examples. How will you evaluate the crude drug chemically? 15