

B. Pham. 3rd Year 2nd Semester Examination 2022.

Subject: Pharmacognosy I

Time: 3 hours

Full marks: 100

Answer five questions taking at least two from each group.

Group A

1. What is crude drug? Give the general source of crude drugs found in nature with their Pharmacological activity. Mention the advantages and disadvantages of Pharmacological classification of crude drugs. 20
2. What is organized crude drug? Cite examples and mention the uses of unorganized crude drug. How will you distinguish the organized and unorganized crude drugs? 20
3. Discuss in details about chemical and chemotaxonomical classification of crude drugs. Mention its advantages and disadvantages. 20

Group B

4. Define and classify plant tissue culture. Write down the applications of plant tissue culture in pharmacognosy. Explain in detail about plant tissue culture media. 20
5. Define volatile oils. What are the characteristics of volatile oils? Describe different methods of extraction of volatile oils from crude sources. Mention general qualitative tests for volatile oils. 20
6. a) Define and classify resins. Write down the compositions of resins. 10
b) Discuss various types of cell suspension cultures. Describe the growth characteristics of plant cell suspension culture. 10
7. Write notes on 5 x 4 = 20
 - a) Callus culture
 - b) Synthetic seeds
 - c) Surface sterilization of explants
 - d) Hardening and acclimatization of in vitro-derived plants