

Question Paper

Exam Date & Time: 13-May-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal College of Pharmaceutical Sciences
Manipal Academy of Higher Education, Manipal
Second Year Pharm D - University examination - May 2024

Subject: PCO 2.3T Pharmacognosy and Phytopharmaceuticals

Pharmacognosy and Phytopharmaceuticals [PCO 2.3T-S1]

Marks: 70

Duration: 180 mins.

A: Long Answer Questions

Answer all the questions.

Draw diagrams wherever necessary

Section A. Long answer Questions

- 1) Define Carbohydrates. Classify them with examples. Explain the chemistry of Carbohydrates (10)
- 2) Define Leaf. Name the different types of apex and margin a leaf. With the biological source and neat (10) labelled diagrams explain the transverse section and powder characters of Senna
- 3) Define Pharmacognosy. Explain history, scope and development of Pharmacognosy. (10)

B: Short Answer Questions

Answer all the questions.

Section B. Short Answer Questions

- 4) Explain different methods of adulteration of crude drugs (5)
- 5) Define and classify proteins. Explain the identification tests for the same (5)
- 6) With biological source explain the preparation of cotton. Add a note on storage of the same. (5)
- 7) Give the biological source, chemical constituents, and preparation of Spirulina (5)
- 8) With neat, labelled diagram explain the life cycle of Ergot. (5)
- 9) Define alkaloids. Classify them with examples. Give the general tests for alkaloids. (5)

C. Give Reasons for the Following

Answer all the questions.

Section C. Give Reasons for the following

- 10) Why crude drugs are preferred to collect from wild source. (2)
- 11) Why excessive rainfall could cause reduction in the secondary metabolites. (2)
- 12) Cinchona bark is red in colour. (2)
- 13) Pyrethrum is used as a natural pesticide. (2)
- 14) Why is gelatine called incomplete protein? (2)

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