

Question Paper

Exam Date & Time: 07-Jul-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Instructions: Answer ALL questions.

Pharmacognosy and Phytopharmaceuticals [PCO 2.3T-S3]

Marks: 70

Duration: 180 mins.

Section A

Answer all the questions.

Long Answer Questions (3 x 10 marks = 30 marks)

- 1) Describe the morphology and microscopy of Fennel with a neat labelled diagrams. (10)
- 2) Give the source, detailed method of cultivation, collection, preparation for market and uses of Cinchona. (10)
- 3) A. What are Polysaccharides? Add a note gums, mucilages and pectin (10)
B. Give the source, various methods of preparation and identify test for Starch

Section B

Answer all the questions.

Short Answer Questions (6 x 5 marks = 30 marks)

- 4) Living cell inclusions. (5)
- 5) Write a descriptive note on plant hormone Auxin and Cytokinins. (5)
- 6) Write the source and discuss the method of preparation of Wool fat and Spermaceti (2.5 each) (5)
- 7) Define Surgical dressing. Classify them with examples. Describe Jute as a surgical fibre (5)
- 8) Describe the Gelatin with reference to source, method preparation and uses. (5)
- 9) Give the chemical tests for the identification of Proteins (5)

Section C

Answer all the questions.

Give Reasons for the Following (5 x 2 marks = 10 marks)

- 10) Starch gives blue colour with dilute Iodine solution. (2)
- 11) Why natural pesticides are preferred over chemical pesticides? (2)
- 12) Shark liver oil and cod liver oil must be stored in amber coloured bottles. (2)
- 13) Detection of Cotton seed oil in Olive oil has significance (2)
- 14) Seeds of Theobroma are packed in boxes, tubs or cavities after removal from the fruits (2)

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