

# Question Paper

Exam Date & Time: 23-May-2023 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Instructions: Answer ALL questions.

**Pharmacognosy and Phytopharmaceuticals [PCO 2.3T-S2]**

**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 Cinchona with neat labelled diagrams. (10)
- 2) Give the Source, chemical constituents, uses and Life cycle of Ergot. (10)
- 3) What are Carbohydrates? Classify them with examples and chemical tests. Describe the method of Isolation, purification and uses of Cellulose. (10)

### Section B

**Answer all the questions.**

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

- 4) Distinguish between Organised and Unorganised crude drugs. (5)
- 5) Discuss in detail about Vegetative methods of propagation. (5)
- 6) Explain the Bees Wax with reference to its source, method of preparation and chemical constituents (1+3+1) (5)
- 7) Explain Viscose rayon as surgical fiber (5)
- 8) Give the source, chemical composition and uses of Spirulina. (5)
- 9) What is Bloom strength and how it is determined? List out the uses of collagen. (5)

### Section C

**Answer all the questions.**

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

- 10) Alphabetical classification is the simplest form of classification of crude drugs. (2)
- 11) Genuine crude drugs are often adulterated with substandard commercial varieties. (2)
- 12) Stems of jute plants are submerged into stagnant water (2)
- 13) Sulphuric acid is used in the preparation of Wool fat (2)
- 14) Jojoba oil is used as a substitute for Spermaceti wax (2)

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