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Total No. of Printed Pages: 1

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B. Pharmacy (Semester – 4th)
PHARMACOGNOSY AND PHYTOCHEMISTRY I
Subject Code: BP405T
Paper ID: [17170122]

Time: 03 Hours

Maximum Marks: 75

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 9 questions of 5 marks each. The student has to attempt any 7 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a) Define alkaloids with examples.
- b) What are unorganized drugs? Provide two examples.
- c) Explain the role of plant hormones.
- d) List applications of plant tissue culture in pharmacognosy.
- e) Classify glycosides with suitable examples.
- f) Enumerate various methods of adulteration.
- g) Give biological source of a drug having hallucinogenic properties
- h) Define organoleptic method of drug evaluation with examples.
- i) What are teratogens?
- j) What is polyploidy in plants? Mention its significance in medicinal plant cultivation.

Section – B

(5 marks each)

- Q2. Discuss the classification of crude drugs based on their chemical properties with examples.
- Q3. Explain the chemistry, sources, and therapeutic uses of acacia and honey.
- Q4. How are secondary metabolites classified? Discuss their properties with examples.
- Q5. Discuss novel medicinal agents derived from marine sources and their therapeutic applications.
- Q6. Describe the role of hybridization in the cultivation of medicinal plants.
- Q7. Explain physical and chemical methods of drug evaluation.
- Q8. Discuss history of pharmacognosy.
- Q9. Explain the conservation strategies used for medicinal plants.
- Q10. Describe the nutritional requirements and maintenance of plant tissue cultures.

Section – C

(10 marks each)

- Q11. Describe the role of quantitative microscopy in evaluating adulteration of crude drugs with examples.
- Q12. Explain the chemical nature, biological source, preparation, and medicinal uses of papain and bromelain.
- Q13. Discuss in detail the factors influencing the cultivation, collection, and processing of drugs of natural origin.