Roll No……..….. **Total No. of Printed Pages: 1**
Total No. of Questions: [13]

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.