

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END-SEMESTER EXAMINATION)**

**CLASS: B.PHARM
BRANCH: PHARMACY**

**SEMESTER: IV
SESSION: SP/2025**

SUBJECT: BP405T PHARMACOGNOSY AND PHYTOCHEMISTRY I

TIME: 3.00 Hours

FULL MARK: 75

INSTRUCTIONS:

1. The missing data, if any, may be assumed suitably.
2. Before attempting the question paper, be sure that you have got the correct question paper.
3. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
4. This question paper consists of (03) three parts. Read the part wise instructions before attempting the questions.

PART-I

Objective type questions (Instruction: Answer all questions)

Q1. (10 x 2 = 20 Marks)

- A. Define allergens? Give examples?
- B. Define phytohormones and mention their applications
- C. Can glycosides be identified by a common test? Give one example?
- D. Distinguish between organised and unorganised drugs and write the botanical name of each of them?
- E. How does collection time affect the quality of plant drugs? Give an example.
- F. How are hallucinogens defined? Give examples?
- G. Can glycosides be identified by common test? Explain with an example?
- H. Mention two applications of serratiopeptidase and streptokinase.
- I. Define phyto hormones and list their applications?
- J. How is percentage purity of powdered drug calculated using Lycopodium spore method?

PART-II

Short Answers

(Instruction: Answer seven out of nine questions) (7 x 5 = 35 Marks)

- Q1. Define adulteration? What are the different methods used for adulteration?
- Q2. How swelling index and foam index estimated and mention the significance of the same?
- Q3. List the advantages and disadvantages of plant tissue culture?
- Q4. Explain chemical method of evaluation of herbal drugs?
- Q5. Write the test to identify of three plant fibers and write the biological source, chemical constituents, and uses of the same?
- Q6. Explain different quantitative microscopic methods of evaluation of natural drugs with illustration?
- Q7. What are edible vaccines? Give examples?
- Q8. How natural drugs are classified and write the advantages and disadvantages of the same?
- Q9. Analyse in detail microscopic method for finding percentage purity of a powdered drug?

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PART-III
Long Answers
(Instruction: Answer two out of three questions)

(2 x 10 = 20 marks)

- Q1. Explain the different phytoconstituents in nature with their biological source and identification tests?
- Q2. How polysaccharide containing drugs identified? Explain in detail the chemical tests and write the biological source of same
- Q3. Explain with examples how cultivation of drugs is influenced by various factors?

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