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

CLASS: B.PHARM BRANCH: PHARMACY SUBJECT: BP405T PHARMACOGNOSY AND PHYTOCHEMISTRY I

SEMESTER: IV SESSION: SP/2023

FULL MARK: 75

TIME: 3.00 Hours 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)

 $(10 \times 2 = 20 \text{ Marks})$

- A. Draw a neat diagram of different types of stomata with example?
- B. How collection time influences quality of plant drugs with examples?
- C. How percentage purity of powder drug can be calculated using Lycopodium spore method?
- D. Distinguish between organised and unorganised drugs and write the botanical name of each of them?
- E. How are hallucinogens defined?
- F. How are Allergens defined?
- G. Can glycosides be identified by common test? Explain with an example?
- H. How different ash values linked with quality of drug with examples?
- I. Define phyto hormones and list their applications?
- J. List the applications of serratiopeptidase and streptokinase?

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 with examples how cultivation of drugs is influenced by various factors?
- Q7. Discuss different chemical methods of evaluation of natural drugs?
- 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?

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 different quantitative microscopic methods of evaluation of natural drugs with illustration?

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Q1.