

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

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

**SEMESTER: IV
SESSION: SP-24**

SUBJECT: BP405T PHARMACOGNOSY & 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.
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PART-I

Objective types questions (Instruction: Answer all questions)

Q1. (10 x 2 = 20 Marks)

- A. Draw the structure of glycoside and label glycone and aglycone portion?
- B. Only digitoxose answers Keller kilani test? Support your answer with suitable structures?
- C. Define Vein islet and palisade ratio?
- D. Draw the structure of the lactone ring in Cardenolides and Bufadienolides
- E. Define Pharmacognosy and write the contributions of pharmacognosy?
- F. Differentiate organised and unorganised drugs?
- G. Illustrate different types of stomata with examples?
- H. How are glycosides identified? Explain with an example?
- I. Write the significance of different ash values with examples?
- J. What are Phyto hormones and give their applications?

PART-II

Short Answers

(Instruction: Answer seven out of nine questions)

(7 x 5 = 35 Marks)

- Q2. Write in short advantages and disadvantages of different classification of drugs from natural origin?
- Q3. Write a brief note on edible vaccines and drugs from marine sources?
- Q4. Define Allergens and hallucinogens with examples?
- Q5. Write the method of determination of swelling index and foam index and mention the significance of the same?
- Q6. Define plant tissue culture? Write the advantages and disadvantages of it?
- Q7. Write the Biological source, chemical constituents, tests and uses of cotton, jute and hemp?
- Q8. Explain the significance of different ash value, extractive value and foaming index in the quality control of herbal drugs
- Q9. Explain different chemical methods of evaluation of quality control of herbal drugs with an example?
- Q10. Justify the use of Lycopodium spore method in the quality control of herbal drugs. Explain the method with an example?

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

(2 x 10 = 20 marks)

- Q11. Explain the factors which affect the cultivation and collection of drugs from natural origin?
- Q12. Write the biological source and chemical tests for different phytoconstituents?
- Q13. How different quantitative microscopic techniques used in the quality control of herbal drugs. Explain with examples?

:::29/04/2024 M:::