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

CLASS: B.PHARM **SEMESTER: II**
BRANCH: PHARMACY **SESSION: SP-22**
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. **Illustrate different types of stomata with an example?**

B. **Distinguish between organised and unorganised drugs?**

C. **Outline the all chemical tests which distinguishes agar and acacia?**

D. **Glycosides are identified by common test? True or false justify your answer?**

E. **All alkaloids answer Mayer's test? True or false justify your answer?**

F. **Palisade ratio can be determined in all plants? True or false justify your answer?**

G. **All anthraquinone glycosides answers borntrager's test? True or false justify your answer?**

H. **In lycopodium spore method the p value is 2, 86,000 for all powdered drugs? Evaluate this statement**

I. **Tragacanth has water soluble and water insoluble portion _____and _____**

J. **Define vein islet, vein termination, vein islet number and vein termination number**

PART-II
Short Answers
(Instruction: Answer seven out of nine questions) (7 x 5 = 35 Marks)

Q2. **Define the biological source, and list the chemical tests and uses of acacia and agar?**
Q3. **List the advantages and disadvantages of plant tissue culture and write about composition of different media?**
Q4. **Explain a) Hallucinogen and b) Natural allergens**

Q5. **Show different tests to identify of three plant fibers and write the Biological source, chemical constituents, and uses of the same?**

Q6. **Develop the lycopodium spore method for an unknown sample with an example for estimation of %purity of the plant material?**
Q7. **Define adulteration? What are the different methods used for adulteration?**

Q8. **How natural drugs are classified and write the advantages and disadvantages of the same?**

Q9. **Summarise uses of different proteins and enzymes?**

Q10. **Define pharmacognosy? Write the scope of Pharmacognosy?**

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

(2 x 10 = 20 marks)

Q11. **Analyse different phytoconstituents in nature with their biological source and write their identification tests?**

Q12. **What is the criterion and procedure of different quantitative microscopic method used in evaluation of plant drugs?**

Q13. **Analyse with examples how cultivation of drugs is influenced by various factors?**

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