

**III. Short answers (Answer seven out of nine questions) (5x7=35)**

1. Draw a schematic diagram of a continuous culture setup used in cell suspension culture. (5)
2. Classify stomata based on their structural arrangements? Give suitable diagram of each of them. (3+2)
3. Write the basic chemical structure of flavonoids? How phenolic compounds are classified? (2+3)
4. Write about the biological source, solubility profile, chemical constituents, chemical tests and use of castor oil. (5)
5. Write a short note on morphological and taxonomical method of crude drug classification. (2.5+2.5)
6. What do you mean by primary metabolites and secondary metabolites? What are the different Physical evaluation parameters in crude drug evaluation? (2+3)
7. What is stomatal number, stomatal index, vein islets and vein islet termination number? What are the numbers of divisions in a stage micrometer scale? (4+1)
8. What are the four fundamentals laws of Homeopathy? Illustrate about Laws of similar and Direction of cure mentioned in homeopathic system of medicine. (2+3)
9. Write a short note on factors affecting cultivation of crude drugs. (5)

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**2023/EVEN/13/38/BP-405/011**

**B Pharm Even Semester Examination,  
September, 2023**

**PHARMACEUTICAL SCIENCES**

**(4th Semester)**

**Course No: BP-405T**

(Pharmacognosy and Phytochemistry-I- Theory)

FM: 75

Time: 3 Hours

*The figures in the right margin indicate full marks for the question*

**I. A. Multiple Choice questions 1x10=10**

1. An example of saponin glycoside is
  - a. Liquorice
  - b. Nuxvomica
  - c. Ashwagandha
  - d. All the options
2. If the sugar is glucose, then the glycoside is called
  - a. Glucoside
  - b. Rhamnoside
  - c. Digitoxoside
  - d. None
3. Diphenylpropane ring is the basic molecule of
  - a. Flavonoids
  - b. Alkaloids
  - c. Volatile oils
  - d. All the options
4. Swelling index is related to determine the \_\_\_\_\_ content
  - a. Mucilage
  - b. Gum

Turn Over

