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Total No. of Pages : 02

Total No. of Questions : 13

**B.Pharma (2017 Batch) (Sem.-4)**  
**PHARMACOGNOSY & PHYTOCHEMISTRY-I**

Subject Code : BP-405T

M.Code : 75847

Time : 3 Hrs.

Max. Marks : 75

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

**SECTION-A****1. Answer briefly :**

- a. Define 'Pharmacognosy'.
- b. What are primary and secondary metabolites?
- c. What is the difference between taxonomical and chemo-taxonomical classification of crude drugs?
- d. What are genetically modified plants?
- e. What are flavonoid glycosides?
- f. Give one difference between chemical nature of fixed oils and volatile oils.
- g. Compare gums and mucilages.
- h. Which plant growth hormones are necessary for plant tissue culture? Why?
- i. What is the advantage and drawback of cultivation of medicinal plants?
- j. How is pharmacognostic study of medicinal plants helpful in Ayurveda?





**SECTION-B**

2. What is adulteration of crude drugs? How can adulteration be detected? Explain with suitable examples.
3. Describe the requirements and caution required for cultivation and collection of medicinal plants.
4. Traditional systems are important in health care system of our country. What are the advantages/drawbacks and what is required for improvement of these systems?

**SECTION-C**

5. What are the requirements and applications of plant tissue culture in pharmacognosy?
6. How does microscopic evaluation help in identification of crude drugs and their adulterants? Explain with suitable examples.
7. What are true, proto and pseudo alkaloids? How can you confirm presence of alkaloids in plants?
8. Write a note on drugs of marine origin.
9. What are the different methods for classification of crude drugs?
10. What are fixed oils and waxes? Write a note on biological source, constituents and uses of Castor oil.
11. How does polyploidy and hybridization help in improvement of medicinal plants?
12. What are glycosides? Give the classification and examples of plants containing cardiac glycosides.
13. Give the sources and commercial and pharmaceutical uses of Honey and Papain.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**