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Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2011 to 2016) (Sem.-1)

PHARMACOGNOSY-I

Subject Code : BPHM-101

Paper ID : [D1102]

Time : 3 Hrs.

Max. Marks : 80

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

SECTION-A**1 Answer briefly :**

- a) How will you differentiate between a tracheid and a xylem vessel?
- b) Differentiate between collenchyma and parenchyma.
- c) Draw the floral diagram and also give floral formula of Papavaraceae.
- d) Give complete biological source of two medicinally important plants belonging to family Rutaceae.
- e) Explain the terms hybridization and polyploidy.
- f) Enlist various physico-chemical parameters used to evaluate the quality of crude drugs.
- g) Define a drug monograph. Enlist the parameters mention in a monograph of a crude drug.
- h) What are cardenolides and bufadienolides? Highlight the differences between them.
- i) What are true, proto- and pseudo-alkaloids? Give example for each.
- j) Draw the basic moieties of a flavone and a flavonol.
- k) Define Elicitors. Give their functions.

- l) What are Buttress and pneumatophoric roots? Give one example of one plant for each type of root.
- m) What are multiple shoot cultures?
- n) What is the difference between a runner and trailer stem?
- o) Give example of two anticancer drugs from marine sources.

SECTION-B

- 2. What are Biotransformations? Discuss their application in plant drug research.
- 3. Discuss the alphabetical classification of crude drugs highlighting its various advantages and disadvantages.
- 4. What are glycosides? Write in brief about anthraquinone glycosides.
- 5. Write important characters of plants belonging to Lamiaceae family. Give floral formula and draw floral diagram of a plant belonging to this family,
- 6. How will you test the presence of cardiac and cyanogenetic glycosides and flavonoides in a given sample?

SECTION-C

- 7. Write an elaborated note on chemical classification of crude drugs.
- 8. How alkaloids are classified? Discuss various properties and various chemical tests for detection of alkaloids.
- 9. Elaborate on different types of plant tissue culture techniques and their applications in the field of plant drugs.
- 10. Define adulteration. Also discuss various types of adulterations.