

Roll No. 

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharmacy (Sem.-8)  
**PHARMACOGNOSY-VI**  
Subject Code : PHM-484  
Paper ID : [D1148]

Time : 3 Hrs.

Max. Marks : 80

**INSTRUCTIONS 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****Q1. Answer briefly :**

- a) Give two examples of fungal toxins.
- b) Write two uses each for geranium oil and valerian.
- c) What is suspension culture? How it is different from callus culture?
- d) Give full form of HS and SITC codes.
- e) Write the source and importance of eucalyptus and lemon grass oil.
- f) Draw structure of psoralen and geraniol.
- g) Give complete biological source of two natural allergens.
- h) Draw chemical structures of menthol and glycyrrhizin.
- i) Name two institutions involved in the research on medicinal and aromatic plants in India.
- j) Define nutraceuticals. Also give two examples.
- k) Write full form of EMEA.

- l) What are bio-transformations in plant tissue culture?
- m) Give biological source of podophyllum and name two semisynthetic anticancer drugs developed from podophyllotoxin.
- n) What do you understand by chemotaxonomy?
- o) Give complete source, uses and HS code of Rauwolfia.

### SECTION-B

- Q2. Discuss the importance of plant tissue culture in the area of medicinal plant research.
- Q3. Discuss the importance and world-wide trade of Isapgol.
- Q4. Write the utilization of eucalyptus oil and its derived products.
- Q5. Write a note on health foods.
- Q6. Write a brief note on the utilization and production of tropane alkaloids.

### SECTION-C

- Q7. Write an elaborated note on the WHO regulations regarding the registration and marketing of herbal products.
- Q8. Write an elaborated note on herbal cosmetics.
- Q9. Discuss in detail the importance and world-wide trade (along with HS codes) of cinchona and diosgenin.
- Q10. Discuss various medicinal agents obtained from marine sources.