

Roll No. 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 02

Total No. of Questions : 10

**B.Pharma (Sem.-6)**  
**PHARMACOGNOSY-V**  
**Subject Code : BPHM-604**  
**M.Code : 71036**  
**Date of Examination : 10-01-23**

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**

**1. Answer the following :**

- a. What are Lignans?
- b. Give the structure of a Flavonol.
- c. Give the biological source and structure of Citral.
- d. Give the structure, source and uses of a Quinoline Alkaloid.
- e. What is Streptomycin? When are they needed?
- f. Give the structure, source and uses of a Cardiac Glycoside.
- g. What are Diterpenoids? Mention their medicinal importance.
- h. Compare the structure of Morphine and Codeine.
- i. What are natural Stereoisomers?
- j. What are Proto and Pseudo Alkaloids?

- k. What is Dioscin?
- l. Compare the structure of alpha, beta and gamma-carotene.
- m. What are Diterpenoids?
- n. Give the structure and test for identification of Anthraquinones.
- o. What is Diosgenin?

### SECTION-B

- 2. What are Triterpenoids? How are they classified? What is their medicinal importance?
- 3. What are Tropane alkaloids? What is their pharmacological importance?
- 4. What are Sennosides? How are they classified? What are their uses?
- 5. Describe the chemistry and uses of Penicillins.
- 6. Write a note on the structure and importance of Digoxin.

### SECTION-C

- 7. Discuss in detail the structure, classification and biological importance of Flavonoids.
- 8. How are various chemical and spectral techniques used for the study of natural products?
- 9. '*Alkaloids are chemically diverse and pharmacologically important*'. Justify this statement.
- 10. What is the importance of Menthol and Citral in the pharmaceutical industry?

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