

Roll No.

Total No. of Pages : 01

Total No. of Questions : 06

M.Pharma(Pharmaceutical Chemistry) (2017 & Onwards) (Sem.–1)

CHEMISTRY OF NATURAL PRODUCTS

Subject Code : MPC-104T

M.Code : 74666

Time : 3 Hrs.

Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of SIX questions.
2. Each question carries FIFTEEN marks.

1. Explain in brief :
 - a. Give the structure for Emetine and one general method of its determination. 3
 - b. Give the structure and name of two female hormones. 3
 - c. Physiological significance of Niacin. 3
 - d. Name the active constituent of *Salacia reticulata* and it used in _____. 3
 - e. Isolation and purification of Flavonoids. 3
2. Give the structure and chemical name of isoprene unit. Give an overview of various Terpene isolation methods. Discuss in detail the structure elucidation of menthol including its stereochemistry. 15
3. Define and classify alkaloids. Give the detailed structural elucidation and stereochemistry of Ephedrine. 15
4. Define the term Lead. Give an overview of different approaches used in the optimization of lead and discuss in detail the importance of Morphine alkaloids natural products in the discovery of drugs affecting central nervous system. 15
5. Give a detail account on Gene therapy and its application Write a short note on Oligonucleotide therapy 7.5 × 2 =15
6.
 - a. Physiological significance of Vitamin A, E. 7
 - b. Name different spectroscopic techniques used for characterization of natural products. Give the significance of Mass, IR and NMR in structure elucidation of Quercetin. 8

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.