

Code: 17S02103

M.Pharm I Semester Regular Examinations February 2018

CHEMISTRY OF NATURAL PRODUCTS

(Pharmaceutical Chemistry)

(For students admitted in 2017 only)

Time: 3 hours

Max. Marks: 60

Answer all the questions

1 (a) Explain the development of lead molecule as anticancer drugs. Discuss the SAR and mechanism of anticancer drugs.

(b) What do you understand the term LEAD?

OR

2 (a) Explain how does morphine alkaloids developed as lead molecules.

(b) Add a note on Curare alkaloids.

3 Write the sources, structural features and structural elucidation of morphine.

OR

4 (a) Discuss the basis chemistry and structural features of steroids.

(b) Explain stereochemistry involved in morphine.

5 (a) Write about classification, isolation and isoprene rule for terpenoids.

(b) Explain physiological significance of vitamin B-complex (B1, B2, B12).

OR

6 (a) Explain in detail about structural elucidation of camphor.

(b) Write a note on β – Carotene.

7 (a) Explain clinical applications and recent advances in gene therapy.

(b) Explain the drugs used in: (i) Liver dysfunction. (ii) Drugs derived from biotechnology.

OR

8 (a) Add a note on principles of RNA and DNA estimation.

(b) Write the uses of Curcuma Longa Linn.

9 How IR and NMR, Mass spectroscopy helps in structural characterization of natural compounds?

OR

10 (a) Give note on the vibrational frequencies involved in various digitalis glycosides.

(b) Write the structural characterization of morphine using IR.
