B. PHARM.

(SEM. VIII) EXAMINATION. 2006-07

PHARMACOGNOSY - V

Time : 3 Hours] [Total Marks : 80

Note :  
(1) Attempt all the questions.
(2) All questions carry equal marks.
(3) Be precise in your answer.

1. Answer the following : (any two)  
   (a) Discuss spectral approaches which are followed to identify simple molecules of natural origin.
   (b) Discuss stereoisomerism taking example of natural products.
   (c) Discuss chromatography as an important tool for analysis of natural products.

2. Answer any two of the following :  
   (a) Discuss biogenesis of secondary metabolites of pharmaceutical importance.
   (b) Discuss chemistry and biosynthesis of Monoterpenes. Differentiate between sesquiterpene and diterpene.
   (c) Give general method for structural determination of terpenes.
   (d) Compare and contrast different terpenes.
3 Answer any two of the following:
(a) Give an account on chemistry and isolation of carotenoids. Discuss their uses.
(b) What are glycosides. Discuss in detail isolation and chemistry of digeloxin and Hecogenin.
(c) Discuss isolation, extraction and chemistry of diosgenin and sarasapogenin.

4 Answer any two of the following:
(a) Discuss in detail chemistry, structure and biological uses of viuca alkaloids.
(b) Discuss chemistry of medicinally important Quassanoids and Flavanoids.
(c) Discuss Lignans and ergot alkaloids.

5 Answer any two of the following:
(a) Describe chemistry and therapeutic actively of tetracycline.
(b) Discuss in detail natural allergeus. Giving emphasis of their pharmaceutical uses.
(c) Write a note on herbal cosmetics.