

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 5063**

Roll No.

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## 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**) **8×2**

- (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 : **8×2**

- (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 : **8×2**

- (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 : **8×2**

- (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 : **8×2**

- (a) Describe chemistry and therapeutic actively of tetracycline.
- (b) Discuss in detail natural allergens. Giving emphasis of their pharmaceutical uses.
- (c) Write a note on herbal cosmetics.