

Total No. of Questions : 4]

SEAT No. :

P3989

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M.Pharmacy (Semester - I & II)

CHEMISTRY OF MEDICINAL NATURAL PRODUCTS

(2013 Pattern)

*Time : 3 Hours]*

*[Max. Marks : 50*

*Instructions to the candidates :*

- 1) *Question number one is compulsory.*
- 2) *Figures to the right indicate full marks.*
- 3) *Draw well labeled diagrams wherever necessary.*

**Q1)** Define Glycosides. Write Chemistry and biogenesis of Diosgenine. [10]

**Q2)** Solve the following (any three) : [3 × 5 = 15]

- a) Write chemical properties of Alkaloids.
- b) Define Terpenoids, write chemistry of it.
- c) Mention biosynthesis of Tryptophan derived Alkaloids.
- d) Focus on methods of analysis of Diosgenine.

**Q3)** Short notes (any three) : [3 × 5 = 15]

- a) Plant pigments.
- b) Structural elucidation of Solasodine.
- c) Flavonoids.
- d) Carbohydrates extraction.

**Q4)** Explain methods of extraction and isolation of Volatile oils. [10]

OR

Classify Alkaloids. Explain method of extraction and isolation of Opium alkaloids. [10]

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