

Total No. of Questions :6]

SEAT No. :

P1448

[5049]-405

[Total No. of Pages :2

Second Year B. Pharmacy
PHARMACOGNOSY AND PHYTOCHEMISTRY - II
(2013 Pattern) (Semester - IV)

Time : 3 Hours]

[Max. Marks :70

Instructions to the candidates:

- 1) All questions are compulsory. Figures to right indicate full marks.*
- 2) Answers to the two sections should be written in separate answer books.*
- 3) Draw neat labelled diagrams wherever necessary.*

SECTION-I

Q1) Define Alkaloids. Describe biosynthetic pathway for Tropane Alkaloids. Explain microscopy of Datura leaf. **[10]**

OR

Write chemical classification of Alkaloids. Give comparative statement for Bolivian Coca and Peruvian coca.

Q2) Answer any five of the following: **[5×3=15]**

- a) Write method of collection and preparation of Opium.
- b) Write chemical constituents and uses of Sarpagandha.
- c) Draw a labelled diagram of T.S. of Ma-Huang.
- d) Write method of extraction of Caffine.
- e) Write Vitali Morine and Murexide test.
- f) Write chemical tests and uses of Nuxvomica.
- g) Write chemical structures of Xanthine derivatives.

P.T.O.

Q3) Discuss on Any Two of the following: [2×5=10]

- a) Life cycle of Ergot.
- b) Chemistry of Alkaloids.
- c) Comparison between cinchona bark and Kurchi bark.
- d) Occurrence and nomenclature of Alkaloids.

SECTION-II

Q4) Classify Terpenoids. Write detail pharmacognosy of Clove. [10]

OR

Write in detail about various methods of extraction of volatile oil.

Q5) Answer any five of the following: [5×3=15]

- a) Write about cultivation and collection of sandalwood oil.
- b) Describe chemical constituents of Artemisia.
- c) Mention uses of Taxus.
- d) Write biological source and uses of Bixin.
- e) Explain collection and preparation of Cinchona bark.
- f) Discuss significance of Refractive Index.
- g) Explain method for determination of Specific gravity.

Q6) Discuss on Any Two of the following: [2×5=10]

- a) Marihuana.
- b) Podophyllum.
- c) Types of Resins.
- d) Guggul.

EEE