

Total No. of Questions : 6]

SEAT No. :

**P3159**

[Total No. of Pages : 2

**[5245]-405**

**Second Year B. Pharm.**

**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 the 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)** Write biosynthesis and pharmacognosy of Isoquinoline narcotic alkaloid. [10]

OR

Write biosynthesis for trptophan derived Indole alkaloid. Explain pharmacognosy of anticancer Indole alkaloid.

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

- a) Draw a labelled diagram of T. S. of Datura leaf.
- b) Write method for extraction of Strychnin and Brucin.
- c) Write Murexide test, Vitali Morin test and Van erk test.
- d) Write various uses and chemical constituents of Rauwolfia.
- e) Draw a labelled diagram of T. S. of Kurchi Bark.
- f) Mention the chemical constituents and uses of Ipecac.
- g) Give biological source, chemical constituents and uses of a glycoalkaloid.

**Q3)** Solve **any two** of the following. [2×5=10]

- a) Note on Ephedra
- b) Write in short about Purin alkaloids
- c) Note on Peruvian bark.
- d) Discuss physical and chemical properties of alkaloids.

***P.T.O.***

**SECTION - II**

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

OR

Comment on types of Resins. Write detail pharmacognosy of Podophyllum.

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

- a) Write Phytoconstituents and uses of Ginger.
- b) Explain cultivation and collection of Sandalwood.
- c) Explain the significance of optical activity in analysis of volatile oils.
- d) Discuss on specific gravity determination.
- e) Comment on Clavenger apparatus.
- f) Describe chemical constituents of Artemisia.
- g) Draw a labelled diagram of T. S. of hypanthium of Clove.

**Q6)** Write note on **any two** of the following. [2×5=10]

- a) Taxol
- b) Guggul
- c) Cannabis
- d) Extraction of volatile oils

