Total No. of Questions : 6]

SEAT No. :

P1987

[Total No. of Pages : 2

[5145]-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 compulsory.***
2) ***Figures to right indicate full marks.***
3) ***Answer to the two sections should be written in separate answer books.***
4) ***Draw neat labelled diagrams wherever necessary.***

SECTION - I

Q1) Define Alkaloids, protoalkaloids and pseudoalkaloids. Explain pharmacognosy of a Quinoline alkaloid. **[10]**

OR

Classify Alkaloids on the basis of its chemical nature. Discuss pharmacognostic account of narcotic Isoquinoline Alkaloid. **[10]**

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

a) Write biosynthesis for Tropane Alkaloid.

b) Discuss adultrants of Rauwolfia.

c) Write chemical tests for identification of Alkaloids.

d) Describe chemical constituents of Claviceps perpuria.

e) Draw labelled diagram of T.S. of Priwinkle leaf.

f) Describe chemical properties of Alkaloids.

g) Discuss chemical constituents and uses of Holarrhena.

P.T.O.

Q3) Solve Any Two of the following: **[2 × 5 = 10]**

a) Note on artificial method of cultivation of Ergot.

b) Explain microscopy and uses of stem containing Amino alkaloid.

c) Write extraction, isolation and identification test for purin alkaloids.

d) Explain method of extraction and isolation for Strychnin and Brucin.

SECTION - II

Q4) Define and classify Terpenoids. Write in detail methods of extraction of volatile oils. **[10]**

OR

Describe the detail pharmacoonostic account of Commiphora. **[10]**

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

a) Compare between Podophyllum root and rhizome.

b) Describe chemical constituents and uses of Ginger.

c) Describe method of cultivation and collection of Kalmi Dalchini.

d) Draw T.S. of Clove bud.

e) Explain uses of Artimissia.

f) Give importance of Optical activity.

g) Note on Clavenger apparatus.

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

a) Sandalwood.

b) Taxol.

c) Boswellia.

d) Analysis of volatile oils.