

Total No. of Questions :6]

SEAT No. :

**P1443**

[5049]-306

[Total No. of Pages :2

**S.Y. B. Pharmacy**

**PHARMACOGNOSY & PHYTOCHEMISTRY - I**  
**(2013 Pattern) (Semester - III)**

*Time : 3 Hours]*

*[Max. Marks :70*

*Instructions to the candidates:*

- 1) *Answers to the two sections should be written in separate books.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *All questions are compulsory.*

**SECTION-I**

**Q1)** Write pharmacognostic account on digitalis. Explain general biosynthetic pathway of glycosides. **[10]**

OR

Write a note on pharmacognostic scheme for the study of Crude drugs.

**Q2)** Answer Any Five questions: **[15]**

- a) Importance of Extractive value.
- b) Explain process for extraction of any starch.
- c) Enlist the uses of Neem oil.
- d) Explain chemical tests for wool.
- e) Differentiate between Black catechu & Pale catechu.
- f) Write biological source, properties & uses of Papain.
- g) Differentiate between primary & secondary Metabolite.

**P.T.O.**

**Q3)** Answer Any Two questions: [10]

- a) Write pharmacognostic account of Licorice.
- b) Write a note on Chemistry of Lipids.
- c) Comment on rational behind the use of secondary metabolites as medicinal compounds.
- d) Write a note on Guargum and Aloe.

### **SECTION-II**

**Q4)** Define & classify Tannins. Write pharmacognostic account of Beteric myrobalan. [10]

OR

Explain process of extraction of pectin and Insulin. Add a note on industrial applications of starch.

**Q5)** Answer Any Five questions: [15]

- a) Classify carbohydrates with examples.
- b) Explain method of preparation of Jute.
- c) Describe properties and chemistry of cyclodextrins.
- d) Describe the advantages of Linseed oil over other edible oils.
- e) Significance of swelling index.
- f) Write pharmacognostic account on cotton.
- g) Explain Isolation of carotenoids.

**Q6)** Answer Any Two questions: [10]

- a) Explain process for separation of Bromelin.
- b) Write a note on PUFA.
- c) Explain extraction process and chemical tests of Black Catechu.
- d) Comment on pharma cognostic account of Kalmegh.

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