

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 rationale behind the use of secondary metabolites as medicinal compounds.
- d) Write a note on Guar gum and Aloe.

SECTION-II

Q4) Define & classify Tannins. Write pharmacognostic account of Berberis 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 Bromelain.
- b) Write a note on PUFA.
- c) Explain extraction process and chemical tests of Black Catechu.
- d) Comment on pharmacognostic account of Kalmegh.

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