

Total No. of Questions : 6]

SEAT No. :

**P1982**

**[5145]-306**

[Total No. of Pages : 2

**S.Y.B.Pharm.**

**236 : PHARMACOGNOSY AND 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 answer books.*
- 2) *All questions are compulsory.*
- 3) *Figures to the right indicate full marks.*
- 4) *Neat diagrams must be drawn wherever necessary.*

**SECTION - I**

**Q1)** Define carbohydrates? Write in detail occurrence, classification, properties of carbohydrates along with suitable example. **[10]**

OR

What are primary and secondary metabolites? Explain functions of different plant metabolites in plant.

**Q2)** Answer any five questions: **[15]**

- a) Write method of extraction of Pectin.
- b) Add a brief note on Linseed oil.
- c) Write biological source, chemical constituents and uses of shark liver oil.
- d) Add a brief account on Jute.
- e) What is PUFA? Write example and use of PUFA.
- f) Differentiate between fats and Waxes.
- g) Which are different enzyme drugs? Explain general properties and uses.

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

- a) Write in detail pharmacognostic account of tragacanth.
- b) Write biological source, chemical constituents and uses of Lecithin.
- c) Explain classification of proteins with suitable examples.
- d) Write a brief note on Inulin.

**P.T.O.**

## SECTION - II

**Q4)** Define and Classify the Glycosides. Explain the method of extraction of Glycosides. **[10]**

OR

Define and classify Tannins. Explain their methods of extraction.

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

- a) Differentiate between Cardenolides and Buffadenolides.
- b) Give the biological source, chemical constituents of Gambier.
- c) Explain the Borntragers and Modified Borntragers test.
- d) Write biological source, chemical constituents and uses of liquorice.
- e) Chemical tests for Tannins.
- f) Give the chemical tests for Guar Gum.
- g) Give the biological source, chemical constituents of Rhubarb.

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

- a) Give the method of preparation of Black Catechu.
- b) Give the method of preparation of Shark liver oil.
- c) Add an account on Digitalis.
- d) Explain in detail different varieties of Aloe.

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