

**Subject Code: B134103/R13** 

## IV B. Pharmacy I Semester Regular Examinations Nov. - 2016 CHEMISTRY OF NATURAL PRODUCTS

Time: 3 hours Max. Marks: 70

Question Paper Consists of **Part-A** and **Part-B**Answering the question in **Part-A** is Compulsory,
Three Questions should be answered from **Part-B**\*\*\*\*\*

PART-A

- 1. (a) Discuss the structure of glucose.
  - (b) Describe the important reactions of amino acid.
  - (c) Write a short note on iodine value.
  - (d) Give the general chemical treatment of terpenoids.
  - (e) Give the general methods for determining Nature of nitrogen in alkaloids.
  - (f) Write a short note on Diosgenin.

[4+4+4+4+3+3]

## PART-B

- 2. (a) Write a note on: Mutarotation.
  - (b) Discuss the structure, properties and uses of starch.

[8+8]

- 3. (a) What are Proteins? Write a note on degradation of proteins & end group analysis.
  - (b) Discuss the structure of Proteins.

[10+6]

- 4. (a) What are Fats and Oils? Describe the physical and chemical properties of fats and oils?
  - (b) Write a note on Saponification Value.

[10+6]

- 5. (a) Write the source, preparation of camphor from  $\alpha$ -pinene and write the conversion of camphor to camphoric acid.
  - (b) Write the conversion of following
    - (i) Carvone to Carvacrol
- (ii) Menthol to thymol

[10+6]

6. Write the Chemistry and uses of Ephedrine, Nicotine, Papaverine and Atropine.

[16]

- 7. (a) Give a detailed account of the structural elucidation of Ergosterol.
  - (b) Define vitamin and classify them.

[8+8]

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