

Code No: B134103

Time: 3 hours

R13

**SET - 1** 

Max. Marks: 70

(10M)

(6M)

(10M)

(6M)

## IV B. Pharmacy I Semester Regular/Supplementary Examinations, Oct/Nov - 2017 CHEMISTRY OF NATURAL PRODUCTS

Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answering the question in **Part-A** is Compulsory 3. Answer any **THREE** Questions from **Part-B** PART -A Explain about the chemical properties of D- Glucose. (3M)b) Write about denaturation of proteins. (4M)c) Describe about nucleoproteins and nucleic acids. (4M) d) Write the structures of Citral, Camphor, Carvone and  $\alpha$ -terpeneiol. (4M) Write about chemical tests for alkaloids. (3M)Write the physiological role of Ascorbic acid. (4M) PART-B a) Define and classify carbohydrates with suitable examples. 2. (8M)Explain about pharmaceutical importance of maltose, lactose, starch, cellulose and (8M)dextrin. What do you understand by N-terminal and C- terminal amino acids? Discuss the (10M)various methods used to determine N- terminal amino acids in a polypeptide chain. Define and name the essential amino acids and write the methods of synthesis of (6M)amino acids. What are Xanthines? How do they differ from purines? (6M)b) Write an account on methylated purines indicating their structural relationship. (10M)Explain the chemistry of Citral and Camphor. (6M) b) Define and classify the terpenes. Write general methods of synthesis of Camphor (10M)and Menthol.

Define and classify the alkaloids with their structures and give suitable examples.

Classify the vitamins with suitable examples and write the chemistry,

Define Steroids. Write the nomenclature & Skeletal structure of Ergosterol,

b) Explain about chemistry and uses of Ephedrine.

Stigmasterol, Cholesterol and Diosgenin.

physiological role of Thiamine.

7. a)