

Code No: B134103

R13

SET - 1

IV B. Pharmacy I Semester Advanced Supplementary Examinations, Feb/March- 2018

CHEMISTRY OF NATURAL PRODUCTS

Time: 3 hours

Max. Marks: 70

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**

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**PART -A**

1. a) Why Glucose and Fructose give two same osazone? (3M)
- b) Write the Structures of citral, camphor, carvone &  $\alpha$ -terpeneiol. (4M)
- c) Write about pharmaceutical importance of methylated Xanthines. (4M)
- d) Write the structures of Citral, Camphor, Carvone and  $\alpha$ -terpeneiol. (4M)
- e) Describe the general methods for isolation of Alkaloids. (3M)
- f) How do you identify the steroids and steroidal glycosides? (4M)

**PART -B**

2. a) Explain about pharmaceutical importance of carbohydrates. (6M)
- b) Discuss the chemistry and structure of D(+) Glucose. (10M)
3. a) Classify the amino acids and give two methods for the synthesis of amino acids. (10M)
- b) Describe the classification of proteins with suitable examples. (6M)
4. a) Write structure and synthesis of uric acid, Theobromine and theophylline?. (10M)
- b) How was the structure caffeine established and confirmed? (6M)
5. a) Define and classify the terpenes. Explain about the general methods for isolation of terpenes. (10M)
- b) Write about chemistry of Carvone and  $\alpha$ -terpeneiol. (6M)
6. a) Write about general methods of structural determination. And add a note on chemical tests for alkaloids? (10M)
- b) Explain about chemistry and uses of Atropine. (6M)
7. a) Classify the vitamins with suitable examples and write the chemistry, physiological role of Riboflavin. (10M)
- b) Write the chemical tests for steroids. And write the structures of limonene and papaverine. (6M)