

Code No: B134103

R13
SET - 1
IV B. Pharmacy I Semester Supplementary Examinations, Oct/Nov - 2019
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**
PART -A

1. a) Write in brief on starch. (4M)
- b) Write chemical tests for identification of amino acids. (4M)
- c) What are nucleic acids? Write their structures. (3M)
- d) Write in brief on extraction of terpenes. (4M)
- e) Classify alkaloids with examples. (3M)
- f) Write structure and chemical test for (4M)
 - (i) cholesterol
 - (ii) caffeine

PART -B

2. a) Define and classify carbohydrates with examples. Write a note on stereochemistry of glucose. (8M)
- b) Write in detail on methods of preparation of amino acids. (8M)
3. Write in detail on chemistry of Oxytocin. (16M)
4. a) Discuss the structure and synthesis of uric acid. (8M)
- b) Write methods used for qualitative evaluation of oils. (8M)
5. a) Classify terpenes with examples. (4M)
- b) Write in detail on chemistry of menthol. (12M)
6. Explain the chemistry of (16M)
 - (i) Nicotine
 - (ii) Atropine
7. a) Compare the structures of diosgenin and hecogenin. (4M)
- b) Write in detail on chemistry and biological significance of riboflavin. (12M)