

IV B. Pharmacy I Semester Advanced Supplementary Examinations, February - 2020
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) What are carbohydrates? Discuss their general properties. (4M)
- b) Write chemical tests for identification of proteins. (3M)
- c) Write in brief on chemical constitution of fixed oils. (4M)
- d) Write isoprene and modified isoprene rule with examples. (4M)
- e) Write general tests for identification of alkaloids. (3M)
- f) Write structure and chemical test for (i) uric acid (ii) phenyl alanine (4M)

PART -B

2. a) Write a note on method of isolation and uses of starch. (6M)
- b) Classify proteins with examples. Explain the methods used for amino acid sequencing. (10M)
3. a) Write about chemical tests for steroids. (6M)
- b) Write short notes on (i) Saponification value (ii) biuret test (10M)
4. a) Discuss the structure and synthesis of caffeine, theophylline. (8M)
- b) Write about general reactions and degradation of proteins. (8M)
5. a) Discuss the methods used for isolation of terpenes (6M)
- b) Write in detail on chemistry of camphor. (10M)
6. Explain the chemistry of (i) Ephedrine (ii) Papaverine (16M)
7. a) Compare the structures of cholesterol and ergosterol. (4M)
- b) Write in detail on chemistry and biological significance of thiamine. (12M)