

PARUL UNIVERSITY
FACULTY OF APPLIED SCIENCE
M.Sc. Winter 2019-20 Examination

Semester: IV
Subject Code: 11205251
Subject Name: Drugs and Natural Products

Date: 09/12/2019
Time: 10:30am to 01:00pm
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1. A) Write a short note. (Each of 04 marks) (08)**
(a). Describe Classification of Steroids.
(b). Explain synthesis and applications of Thymidine.
- Q.1. B) Answer the following questions (Any two) (04)**
(a) Write short answers. (Each of 02 marks) (04)
1. Define Antiviral agents.
2. Write any four names of Steroids.
(b). Explain synthesis and applications of Testosterone. (04)
(c). Explain synthesis and applications of Methisazone. (04)
- Q.2. A) Answer the following questions. (04)**
(a) Write short answers. (Each of 02 marks) (04)
1. Define Alkaloids.
2. What are Natural pigments? Give four names of it.
(b). Write the structure and properties of Camphor. (04)
- Q.2. B) Answer the following questions (Any two)**
(a). Give the structure and properties of Nicotine. (03)
(b). Write a short note on Anthocyanins. (03)
(c). Give structure and uses of Ephedrine. (03)
- Q.3. A) Write a short note. (Each of 04 marks) (08)**
(a). Describe the classification of Terpenes.
(b). Explain the structure of beta-Carotene..
- Q.3. B) Answer the following questions (Any two) (04)**
(a) Write short answers. (Each of 02 marks) (04)
1. What is Isoprene rule?
2. What are Porphyrins?
(b) Explain the structure and function of Haemin. (04)
(c) Explain the structure and function of Chlorophyll. (04)
- Q.4. A) Answer the following questions. (04)**
(a) Write short answers. (Each of 02 marks) (04)
1. What are essential and non-essential amino acids?
2. Define vitamin.
(b) Explain classification of amino acids. (04)
- Q.4. B) Answer the following questions (Any two)**
(a) Explain structure and properties of Thiamine. (03)
(b) Give the reaction to prepare Vitamin C. (03)
(c) Define and explain the structures of Zwitter ions. (03)