Seat No:____

Enrollment No:_____

PARUL UNIVERSITY

FACULTY OF APPLIED SCIENCE M.Sc., Summer-2017-18 Examination

Semester: 4 Date: 08/05/2018

Subject Code: 11205251 Time: 02:00PM TO 04:30PM

Subject Name: Drugs and Natural Products.

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 Brief Note:	(08)
(a). Explain the Classification of Natural products. Give their names.	
(b). Describe structure and synthesis of Vitamin B6-Pyridoxin.	
Q.1. B)Answer the following questions (Any two)	
(a) Write in short.	(04)

- Describe the structure and uses of Vitamin B1-Thiamin.
 Give the structure and uses of Vitamin C.
- (b) Describe structure and synthesis of Vitamin H-Biotin.
 (c) Write a note on the methods to isolate Natural products.
 (04)

Q.2. A)Answer the following questions.

- (a) Write in short.1. What are Steroids? How they are different than Drugs?
- 2. Define Anti-viral agents. Give two names of it.(b) Describe the mode of action of steroids. (04)

Q.2. B)Answer the following questions (Any two)

- (a). Write the synthesis and uses of Testosterone. (03)
 (b). Write the synthesis and applications of Thymidine. (03)
- (c). Write the synthesis and applications of Methisazone. (03)3. A)Write Brief Note: (08)
- Q.3. A) Write Brief Note:(a). What are Terpenoids? Describe its classification with examples.
 - (b). Describe the structure and synthesis of Morphine.

Q.3. B) Answer the following questions (Any two)

- (a) Write in short.1. Write the structure and uses of Camphor.
 - 2. Write the structure and uses of Reserpine.
- (b) What are Alkaloids? Write a note on the physiological actions of Alkaloids. (04)
- (c) Give the structure and Biosynthesis of Ephedrine. (04)

Q.4. A) Answer the following questions.

- (a) Write in short.1. What are Natural Pigments? Give their names.
 - 2. What are Anthocyanins? Give their examples.
- (b) Explain the synthesis of *beta*-Carotene. (04)

Q.4. B) Answer the following questions (Any two)

- (a) Describe the synthesis and structure of Chorophyll. (03)
- (b) Give the synthesis of Haemin. (03)
- (c) What are Porphyrins? Give their examples. (03)