

PARUL UNIVERSITY
FACULTY OF APPLIED SCIENCE
M.Sc., Summer 2018-19 Examination

Semester: 4
Subject Code: 11205251
Subject Name: Drugs & Natural products

Date: 01/04/2019
Time: 02:00pm To 04:30pm
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) Essay type/ Brief note (4x2) (Each of 04 marks) (08)**
(a) What are Natural products. Describe its classification, source & methods of isolation.
(b) Write names of four Vitamins, Pigments, Alkaloid & Terpenoids.
- Q.1. B) Answer the following questions (Any two) (04)**
(a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks) (04)
1. What is the source of Vitamin A. Explain its deficiency in Human beings.
2. What is the source of Vitamin C. Explain its deficiency in Human beings.
(b) Write structure of four Vitamins, Pigments, Alkaloid & Terpenoids (04)
(c). Short note on Vitamin B Complex. (04)
- Q.2. A) Answer the following questions. (04)**
(a) Short note / Brief note (2x2)/ Fill in the blanks. (Each of 02 marks) (04)
1. Explain daily requirement of Vitamin A, B1, B2, B6 & C in mg for Human being.
2. Short note on Vitamin B6
(b). Short note on Sex Hormones (04)
- Q.2. B) Answer the following questions (Any two) (03)**
(a) Short note/ Multiple choice questions. (Each of 01 marks) (03)
1. What is the systematic name for isoprene.
2. What is an oxidised terpene known as?
3. What is the name of Vitamin B2?
(b)) Synthesis of Methisazone (03)
(c) Synthesis of Testosterone from Cholesterol (03)
- Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks) (08)**
(a) Synthesis of Estradiol
(b) Structure of Camphor & Zingiberene, Squalene & Reserpine, Morphine & Vitamin B6
Androsterone & Progesterone
- Q.3. B) Answer the following questions (Any two) (04)**
(a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks) (04)
1. Write the Molecular formula of Tetra Terpene & Polyterpene.
2. Terpene is derived from the word? Explain their uses.
(b) What are terpenes. Explain their classification & Isoprene rule (04)
(c) Structure Elucidation of Progesterone (04)
- Q.4. A) Answer the following questions. (04)**
(a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks) (04)
1. Anthocyanins
2. Flavonols
(b) Explain Symptoms, diagnosis & Treatment of HIV (04)
- Q.4. B) Answer the following questions (Any two) (03)**
(a) Short note/ Multiple choice questions. (Each of 01 marks) (03)
1. Name Hormones associated with Puberty ?
2. Morphine an opium alkaloid is used as ?
3. Anti retroviral drugs are used for ?
(b) AIDS (03)
(c) β -Carotene (03)