

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF PHARMACY
Pharm. D. Summer 2018-19 Examination

Year: 1

Subject Code: 08207130

Subject Name: Biology

Date: 26/04/2019

Time: 10:00am to 1:00pm

Total Marks: 70

Instructions

1. Figures to the right indicate maximum marks.
2. Make suitable assumptions wherever necessary.

Q.1 Essay Type Questions. (any 2 out of 3) (15 Mark Each) (30)

1. Explain Urinogenital System of Male and Female Frog.
2. Write a note on following:
 - a. Definition of Leaf
 - b. Difference between Leaf and Leaflets
 - c. Types of Leaf
 - d. Modification of Leaves.
3. Explain in detail about Photosynthesis. Discuss the factors affecting growth of the Plant.

Q.2 Short Essay Type Questions. (any 4 out of 5) (5 Mark Each) (20)

1. Write a short note on morphology of Roots and Types of Roots.
2. Explain different parts of the flower and arrangement of floral parts on thalamus.
3. Discuss the general characteristics of aves. Why they are required to be studied by Pharmacists?
4. Explain Cell inclusion or Ergastic substances of Plants.
5. Write a short note on Frog Respiratory System.

Q.3 Short Answers. (2 Mark Each) (20)

1. Write the function of Mitochondria and Ribosomes.
2. Write a note on Pollination.
3. Discuss the factors affecting Enzyme Action.
4. Draw the stepwise flowchart of Glycolysis.
5. Define the following terms:
 - a. Petiole
 - b. Phylloclade
 - c. Sucker
 - d. Hypogynous flower.
6. Classify the Seeds with respect to Endosperms.
7. Explain Racemose and Cymose Inflorescence.
8. Distinguish between Gram Positive and Gram Negative bacteria. Quote example of each.
9. Discuss about Shark liver oil and Cod liver oil.
10. Which are the Frog Sense organs and discuss the reflex action of frog.