Progressive Education Society's

Seat No.

Modern College of Arts, Science and Commerce (Autonomous)
Shivajinagar, Pune -5

[Total no. of questions:5] [Total number of pages:2]

First Year B.Sc. Biotechnology (Mar-2020)
End Semester Backlog Examination, (2019 Pattern) Semester – I

Course Code: 19ScBioU103 **Course Name: Basics of Plant Sciences I**
Date: 13-03-2020 **Time: 10.00 a.m. to 12.00 p.m.**
[Time: 2 Hours] [Max Marks: 60]

Instructions to Candidates:

1. *All Questions are compulsory.*
2. *Neat diagrams must drawn whenever necessary.*
3. *Figures to the right indicate full marks.*

Q1. Answer the following questions in two-three sentences each (Any six) **(6 x 2M =12M)**

1. Define the Systematics.
2. Explain Genus?
3. What is Binomial nomenclature ?
4. What is Pomology ?
5. Define Meristem.
6. What is Taxon?
7. What are Adventitious roots ?
8. Give salient features of Bryophytes.

Q2. Answer the following questions (Any Four) **(4 x 3M = 12M)**

1. With suitable examples explain different pigments found in Algae.
2. Write note on mode of nutrition in fungi.
3. What is Parenchyma ? Explain its structure and function in plant body.
4. Explain how does Bryophytes differ from Pteridophytes?
5. What is the importance of studying morphology of plant?

Q 3.Write Short Notes on (Any Three) **(3 x 4M = 12 M)**

1. Monocot stem.
2. Important characteristic of Gymnosperm.
3. Types of inflorescences.
4. Complex Tissue system in plants.

Q4. Attempt any one of the following (Any one) **(2 x 6M = 12M)**

a) Give the differences between the Vascular bundles of monocot and dicot stem.

b) What is ICBN? Give the principles and rules of ICBN.

OR

a)What is Pteridophytes? Write the characteristic features and give any one example.

b) Define Meristematic tissue? What are its characteristics ?

Q 5. Attempt the following question (Any One) **(12M)**

a) Write the economic importance of Fungi. (8M)

OR

a) Illustrate Binomial system in plants.

b) Draw neat labeled diagram of T.S. of Stem. (4M)

OR

b) Distinguish between Collenchyma and Parenchyma .