



Progressive Education Society's

Seat No.

Modern College of Arts, Science and Commerce (Autonomous)

Shivajinagar, Pune -5

[Total no. of questions:5]

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First Year B.Sc. Botany (Mar-2020)

End Semester Backlog Examination, (2019 Pattern) Semester – I

Course Code: 19ScBotU102

Course Name: Plant Morphology

Date: 14-03-2020

Time: 10.00 a.m.-12.00 p.m.

[Time: 2 Hours]

[Max Marks: 60]

Instructions to the candidates:

1. All questions are compulsory
2. Figures to the right indicate full marks.
3. Draw neat and labeled diagrams wherever necessary.

Q1. Answer the following.

[12]

- a) Enlist any four modifications of leaf.
- b) What is acropetal succession?
- c) Enlist regions of root with their functions.
- d) Enlist any four types of aestivation with example of each.
- e) What is deliquescent stem?
- f) Define composite fruit.

Q2. Answer any three of the following in 8-10 lines.

[12]

- a) Describe characteristic features of stem.
- b) What is venation? Describe its types.
- c) Explain modifications of adventitious roots.
- d) Describe any four types of racemose inflorescence.
- e) Explain epigynous flower.

Q3. Write short notes on any three of the following

[12]

- a) Aggregate fruits
- a) Types of leaf margins
- b) Types of stem branching
- c) Cyathium inflorescence
- d) Albuminous seed

Q4. Answer any two of the following in 12-15 lines.

[12]

- a) What is placentation? Describe its types.
- b) Describe types of dry indehiscent fruits.
- c) Explain modifications of tap root.

Q5. Define flower. Describe structure of typical carpel and add a note on types of gynoecium based on number and fusion of carpels.

[12]

OR

What is leaf? Describe its various modifications.
