

Parvatibai Chowgule College of Arts and Science
Autonomous

B.Sc. Semester End Examination, January 2022

Semester: III

Subject: Botany

Title: Systematics of Flowering Plants & Phylogeny (BOT-III.E-2)

Duration: 2 hours

Max. Marks: 45

Instructions: 1. All questions are compulsory; however internal choice is available.
2. Answer sub-questions in Q.I and Q.II briefly.
3. Figures to the right indicate maximum marks assigned to the question.
4. Draw appropriate labelled diagrams wherever necessary.

Q.1. Answer ANY THREE of the following: (09)

- a. What is a Flora? Name the types of Flora.
- b. What are variations in plant systematic? State its types.
- c. Write the salient features of family Poaceae.
- d. What are the advantages of Virtual herbarium?

Q.2. Answer ANY TWO of the following: (12)

- a. Explain the taxonomic, biological and evolutionary species concept.
- b. Discuss the functions of Herbarium.
- c. Write about co-evolution of angiosperms.

Q.3. Answer ANY TWO of the following: (12)

- a. Explain the evidences from palynology used in plant systematics.
- b. Write about any four Botanical gardens acting as herbaria.
- c. Write a note on the Bentham and Hooker Plant Classification.

Q.4. Answer ANY ONE of the following: (12)

A) Write a note on the systematic position, salient features, vegetative and floral characters of family Cucurbitaceae citing two examples.

OR

B) Write a note on single access and multi access keys.
