



Progressive Education Society's
Modern College of Arts, Science & Commerce Ganeshkhind, Pune -16
End Semester Examination: Oct. 2023

Faculty: Science and Technology

Program: B.Sc.

Semester: III

SET: A

Program (Specific): General B.Sc.

Course Type: Core

Class: S.Y. B.Sc.

Max. Marks: 35

Name of the Course: Angiosperm Systematics and Plant Ecology

Course Code: 22 - BO - 231

Time: 2Hr

Paper: I

Instructions to the candidate:

- 1) There are 4 sections in the question paper. Write each section on separate page.*
- 2) All Sections are compulsory.*
- 3) Figures to the right indicate full marks.*
- 4) Draw a well labelled diagram wherever necessary.*

SECTION: A

Q1) Answer the following

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- I) Define Angiosperm Systematics.
- II) Give any two objectives of plant taxonomy.
- III) Write names of two families of Polypetalae.
- IV) What is full form of APG?
- V) Define Autoecology.

Q2) Answer any four of the following

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- I) Which type of fruit is present in Annonaceae?
- II) Write botanical names of any two plants of family Brassicaceae.
- III) What is polyphyletic origin.
- IV) Comment on concept of Biodiversity hot spots.
- V) Write External adaptations in hydrophytes.
- VI) Describe whorls of Solanaceae flower.

SECTION: B

Q3) Write short note on any four of the following. **8**

- I) What is numerical taxonomy?
- II) Write any two distinguishing features of family Rubiaceae.
- III) Write economic importance of family Myrtaceae .
- IV) What are halophytes?
- V) Write systematic position of family Apocynaceae.
- VI) Comment on endemism of angiosperms

SECTION: C

Q4) Answer any four of the following **8**

- I) Write down steps in numerical taxonomy
- II) Describe inflorescence of Amaryllidaceae
- III) What are biotic and abiotic components of an ecosystem?
- IV) What is isotype and paratype?
- V) What is herbaria and comment on herbarium.
- VI) What is dendrogram?

SECTION: D

Q5) Attempt any two of the following **10**

- I) Draw and describe floral formula floral diagram of family Brassicaceae.
 - II) Give an account of flora.
 - III) Write down scope and importance of plant taxonomy.
 - IV) Comment on coining of generic and specific epithets.
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