



RAN-2303080403030002

M.Sc. (Sem.- III) Examination October - 2025
Botany (Paper - 3003) (Phytomorphology)

Time: 3 Hours]

[Total Marks: 70

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) Neat correct and labeled diagram will add to the value of the answers.
- (3) Figures to the right indicate full marks for each question.

Seat No.:

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Student's Signature

Q.1. Answer any one of the following: (16)

1. Describe the different zones of a root and explain their functions with a neat labeled diagram.
2. Differentiate between valvate, twisted, imbricate, quincuncial and vexillary aestivation with diagrams and examples.

Q.2. Explain in detail the modifications of leaves with suitable examples and neat labeled diagrams. (18)

OR

Q.2. Define inflorescence. Describe the different types of racemose inflorescence with neat labeled diagrams and examples. (18)

Q.3. Answer any two of the following: (18)

1. Write a note on the objectives and importance of the APG system in modern taxonomy.
2. Describe the distinguishing morphological features of the Plumbaginaceae family with a neat floral diagram.
3. Explain the underground modifications of the stem with suitable examples.

Q.4. Answer any two of the following: (18)

1. Explain the morphological variation in different types of bracts with suitable examples and neat labeled diagrams.
2. Types of Placentation.
3. Define plant classification. Describe the main features of the artificial system of classification with examples.