



RAN-2303080402030003

M. Sc. Botany Ext. Theory (Sem.-II) Examination September - 2025

BOT-2003 M. Sc. Botany CORE-III Biostatistics, Instrumentation and Techniques

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) All questions are compulsory
- (3) Attempt all parts of a question together.
- (4) Draw well labeled diagrams wherever necessary

Seat No.:

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Student's Signature

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| Q.1. | Describe | 16 |
| | <ol style="list-style-type: none"> a. Chi-Square Test and its significance b. Mass Spectrophotometry (Principle and working) | |
| Q.2. | Describe (Any Two) | 18 |
| | <ol style="list-style-type: none"> a. Centrifugation and its types b. Standard Deviation and Variance with Example c. ANOVA and its significance | |
| Q.3. | Describe (Any Two) | 18 |
| | <ol style="list-style-type: none"> a. Types of Data b. Agarose Gel Electrophoresis (Principle and Working) c. Gas Chromatography (Principle and Working) | |
| Q.4. | Describe (Any Two) | 18 |
| | <ol style="list-style-type: none"> a. HPLC (Principle and Working) b. Correlation and Pearson Correlation Coefficient c. ELISA (Principle and Working) | |