

**A-0022**

**Total Pages : 3**

**Roll No. ....**

**MSCBOT-606**

**M.Sc. BOTANY (MSCBOT)**

**(Biostatistics)**

**4th Semester Examination, Session December 2024**

**Time : 2:00 Hrs.**

**Max. Marks : 70**

*Note :- This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

**Section-A**

**(Long Answer Type Questions)      2×19=38**

*Note :- Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.*

1. Define the term multivariate analysis. Explain its introduction, characteristics and applications.
2. Define hypothesis and also discuss about the types of hypothesis.
3. What is correlation ? Describe the types and degree of correlation.
4. What do you understand by randomization ? Explain it's role in design of experiment.
5. Compute the standard deviation of marks taken by 10 students by actual mean and assumed mean method.  
Marks 80 45 92 66.

### **Section–B**

**(Short Answer Type Questions)**      4×8=32

**Note** :– Section 'B' contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Give a short note on the stem-leaf method of data presentation.

2. Differentiate between pictogram and histogram.
3. Discuss the role of biostatistics in life sciences.
4. Write short note on deciles.
5. Discuss about a pie chart with diagram.
6. Write a note on  $t$ -Test and its uses.
7. Write merits and demerits of coefficient of correlation.
8. Give the principles of design of experiment.

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