

**A-0022**

Total Pages : 3

Roll No. ....

**MSCBOT-606**

**M.Sc. Botany (MSCBOT)**

**(Biostatistics)**

Examination, June 2025

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. Give a detailed account of classifications of data and its types ?
2. Discuss in brief the utility of standard of deviation in biology and write its merits and demerits.
3. What do you understand by replication ? Explain its role in design of experiment.
4. Write an essay on Split Plot Design explaining its main features layout and uses.
5. Write a detailed note on Two way ANOVA clearly mentioning the mathematical model, hypothesis, various sum of squares and the ANOVA table.

### **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. Write a short note on types of clusters.
2. Write short note on merits and utility of median.
3. Give in brief description about correlation.

4. Calculate the correlation coefficient between the heights of fathers in cm (X) and their sons (Y)

X	Y
171	173
167	166
169	167
177	177
178	179
165	164
172	171

5. Differentiate between primary and secondary data ?
6. Discuss in brief measures of central tendency.
7. Give a brief note about Randomized Block Design (RED).
8. Write a note on Z-Test and its uses.

\*\*\*\*\*