

SEM-2460

M. Sc. (Fourth Semester) Examination, June 2021

STATISTICS

(Design of Experiments)

Time Allowed : Three hours

Maximum Marks : 35

Note: Attempt all questions. Each question carries equal marks.

1. Explain Latin square design. Write its advantages. Give statistical analysis of $m \times m$ LSD for one observation per experimental unit.
2. Conduct and interpret a one-way analysis of covariance. Write its applications to standard designs.
3. Explain balanced and partial balanced block design. Also explain the analysis of block designs.
4. In a Balanced Incomplete Block Design (BIBD), Prove that
$$\lambda(v-1) = r(k-1)$$
Also obtain the efficiency of BIBD relative to RBD.
5. Define factorial experiment. Why these are considered better than the experiments in which factors are tried one by one?

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