M.Sc. BIOSTATISTICS EXAMS
FIRST YEAR
PAPER III – STATISTICAL INFERENCE, SAMPLING METHODS AND SAMPLE SIZE

Q.P. Code: 282863

Time: Three hours   Maximum: 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Types of probability and non-probability sampling.

2. a) Cramer-Rao inequality.
   b) Rao-Blackwell inequality.

II. Write notes on: **(10 x 6 = 60)**

1. Critical region and level of significance.

2. Method of Moments.

3. BLUE.

4. The convenience and Judgment sample.

5. Any two non-parametric tests.

6. Sampling and its advantages.

7. Some important points of Estimation of sample size.

8. Properties of point estimators.

9. UMP unbiased test.

10. Systematic sampling and its advantages.

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