

**B.Sc DEGREE EXAMINATION, EVEN SEMESTER 2021**  
**III Year VI Semester**  
**Sampling Techniques**

**Max.marks :25**

Answer any **FIVE** questions ( $5 \times 5 = 25$ ) Marks

1. Describe principal steps involved in sample survey
2. Derive the variance of the estimate of the mean in Simple random sampling without replacement.
3. Explain the relative precision of a stratified sampling and simple random sampling
4. Derive the variance of the estimated mean in systematic sampling
5. Explain cumulative and Lahiri method
6. Illustrate ratio and regression estimator with example
7. Mention the advantages of sampling over complete census and limitations of sampling