

SILVER JUBILEE DEGREE AND PG COLLEGE (HUBSIGUDA)

B.Sc (MSCS)-III year Unit Test-I Semester –V (2018)

Sub: Statistics (Sampling theory) Paper-V

Total: 30marks

I. Short Question and Answers. (1X6=6marks)

1. Write the Advantages of sampling over Censes.

II. Easy Question and Answers. (2X12=24marks)

1. Prove that in SRSWOR, the variance of the sample mean is given by

$$\text{Var}(\bar{y}_n) = \frac{N-n}{N} \cdot \frac{S^2}{n} \quad (\text{or}) \quad \left(1 - \frac{n}{N}\right) \frac{S^2}{n}.$$

2. Write the difference between SRSWOR and SRSWR.