NOTE: The syllabi of the following paper for B.Sc. Statistics degree for the candidates admitted from the academic year 2015-16 is revised and there is no change in the existing scheme of examination and syllabi of the remaining papers.

SEMESTER-VI

CORE PRACTICAL PAPER-IV (USING CALCULATOR)

Problems:

Basic Sampling Theory:
1. Estimation of mean and variance of the population and the variance of the estimator of the mean using Simple random procedure.
2. Stratified random sampling – Estimation of mean and variance of the population and of the variance of the estimator of the mean under proportional and optimum allocation.
3. Systematic sampling.

Design of Experiments:
1. Analysis of RBD and LSD lay outs
2. Missing plot techniques in RBD and LSD
3. Analysis of $2^2, 2^3$ and $3^2$ factorial designs with and without confounding.
4. Analysis of Covariance with one concomitant variable to RBD.

Statistical Quality Control:
1. Control chart for attributes and variables: $\bar{X}, R, p, c$ and $np$ charts
2. Single sampling plan for attributes: OC, ATI, AOQ curves.

Note:
Three questions to be answered out of five questions.
Two Questions from Basic Sampling Theory
Two Questions from Design of Experiments
One Question from Statistical Quality Control

For problems: 80 marks
For record: 20 marks
Total: 100 marks