

April 2025
B.A./B.Sc.
Fourth Semester
SKILL ENHANCEMENT COURSE – 2
STATISTICS
Course Code: STS 4.11
(Statistical Techniques for Research Methods)

Total Mark: 35

Pass Mark: 14

Time: 2 hours

Answer five questions, taking one from each unit.

UNIT-I

1. (a) What are the objectives of research? Differentiate between quantitative and qualitative research. 2+2=4
(b) What are the components of a research problem? 3
2. (a) Write a note on research process with diagram. 4
(b) What are the basic postulates of scientific method? 3

UNIT-II

3. (a) Why is “Research Plan” essential for a new researcher? 2
(b) What are the items of a research plan? 3
(c) Write a note on ratio scale of measurement. 2
4. (a) Write briefly on the tests of sound measurement. 5
(b) What are the different parts of a research design? 2

UNIT-III

5. (a) Write a note on interview method of data collection. 3
(b) Write the advantages of case study method. What are the major phases involved with it? 2+2=4
6. (a) Write on the different factors responsible for selection of appropriate method for data collection. 4
(b) Differentiate between a questionnaire and a schedule. 3

UNIT-IV

7. (a) What are the points the researcher must pay attention while developing a sampling design? 3
(b) Write briefly on characteristics of a good sample design. 2
(c) Differentiate between probability and non-probability sampling. 2
8. (a) What analysis are involved when multivariate analysis is referred? 3
(b) What are the tests used for testing of hypothesis for parametric data? 4

UNIT-V

9. (a) What are editing and coding of data? 4
(b) Write a short note on precautions in interpretation. 3
10. (a) Why tabulation of data is essential? Write on the principles of tabulation. 2+3=5
(b) What are the two major aspects of interpretation? 2
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