

# END SEMESTER EXAMINATION

## Research Methodology: MTRM0102

**Total Marks: 100**

**Duration: 3 hrs**

**1. Answer the following questions:**

[1X10=10]

i. Which of the following test is a parametric test? [CO4]

- a) Sign Test
- b) Run Test for Randomness
- c) Kruskal-Willis Test
- d) z-test

ii. SPSS is an acronym for which of the following? [CO4]

- a) Statistical Predictions for Social Sciences.
- b) Statistical Preferences for Social science
- c) Statistical Package for the Social Sciences.
- d) Statistical Performance for Social Sciences.

iii. ANOVA is \_\_\_\_\_ [CO4]

- a) Cause and effect Analysis
- b) The name of a statistical software package.
- c) A one-way analysis of variance.
- d) A two-way analysis of variance.

iv. The first page of the research report is: [CO4]

- a) Appendix
- b) Bibliography
- c) Index
- d) Title Page

v. .... research tries to find out solution for an immediate problem faced by society or business organization. (Fundamental/ Analytical/Descriptive/ None of the above) [CO1]

vi. Fundamental research is also known as ... research. [Pure/Basic/ Both/None of the above] [CO1]

vii. In case of research process, which of the given steps precedes the step "Collection of data"? [Analysis of data/ hypothesis testing/ Developing the hypothesis/ None of the above] [CO1]

viii. ... is one of the techniques of non-probability sampling. [ Cluster sampling/ systematic sampling/ purposive sampling/none of the above] [CO3]

- ix. If a population from which sample is to be drawn does not constitute a homogeneous group, ... is generally applied. [Cluster sampling/ systematic sampling/ purposive sampling/none of the above] [CO3]
- x. Under ...technique of data collection, enumerators are appointed and given training. [Direct personal interview/ observation/ mailing of questionnaire/ none of the above]. [CO3]
2. Answer briefly **any five** of the following questions: [3X5=15]
- What do you mean by data processing? [CO4]
  - State the need of analyzing the data? [CO4]
  - What is research design? [CO2]
  - Write briefly about the objectives of research? [CO2]
  - What is the significance of a research report? [CO1]
  - What is sample design? [CO3]
3. Answer **any five** of the following questions: [7X5=35]
- Describe the different stages in data processing. [CO4]
  - A genetics engineer was attempting to cross a tiger and a cheetah. She predicted a phenotypic outcome of the traits she was observed to be in the following ratio 4 stripes only: 3 spots only: 9 both stripes and spots. When the cross was performed and she counted the individuals she found 50 with stripes only, 41 with spots only and 85 with both. According to the Chi-square test, did she get the predicted outcome? [CO4]
  - Discuss the different types of research reports. Elaborate layout of the research report. [CO4]
  - What is a research Problem? What are the techniques involved in defining a research problem? [CO1]
  - What is a hypothesis? What are the different types of hypotheses? Mention the names of three tests which are utilized in testing hypotheses. [CO2]
  - Discuss about three sampling techniques which fall under probability sampling. [CO3]
4. Answer **any four** of the following questions: [10x4=40]
- What is meant by a Research report? Discuss characteristics of a good research report. [CO4]
  - What do you mean by the term "Measurement of Scale?" Discuss the different types of measurement of the Scale. [CO3]
  - What are the different types of research? Discuss with examples. [CO1]
  - Draft a questionnaire by selecting a topic of your choice. [CO2]
  - Write a note on significance of research. [CO3]
  - Write about the different techniques of collecting primary data. Give examples. [CO1]