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II Semester M.Com Degree Examination, October - 2023**COMMERCE****Advanced Research Methodology****Paper : 2.3****(Scheme : CBCS)****Time : 3 Hours****Maximum Marks : 70****Section -A****Answer any Seven questions out of ten. Each question carries Two marks: (7×2=14)**

1. a) Differentiate between inductive and deductive theory.
- b) State two criteria of good research.
- c) Define "Variables" in research.
- d) Explain the concept of a "Mixed Research Design."
- e) Define the term "field work validation."
- f) What is the main goal of tabulation in data processing?
- g) What is the significance of Type I error in hypothesis testing?
- h) State two methods for minimizing sampling error.
- i) Differentiate between descriptive and inferential analysis.
- j) State the purpose of the t-test.

Section - B**Answer any Four questions out of six. Each question carries Five marks: (4×5=20)**

2. Explain the significance of plagiarism detection software and its role in maintaining research integrity.
3. Explain the components and sources of research problem.
4. Variables are integral to the research. Explain the different types of variables that researchers commonly use.

[P.T.O.]



5. Describe the techniques used for data scaling. How can researchers decide on the appropriate scaling technique for their study?
6. Define the term "hypothesis" and explain the different types of hypotheses.
7. Write a note on Descriptive and Analytical Research.

Section - C

Answer any Two questions out of Four Each question carries Twelve marks:

(2×12=24)

8. Research in India presents unique challenges to researchers. Identify and elaborate on the major problems encountered by researchers in India during different phases of their research projects. Suggest strategies to address these challenges effectively.
9. Explain the different types of Sampling Techniques in detail with example.
10. Outline the entire process of data processing, from field work validation to graphical representation. Describe the role of each step and its significance in ensuring accurate research outcomes.
11. Describe the situations where F-test and ANOVA are applicable.

Section - D(Compulsory)

Answer the following question for 12 marks.

(1×12=12)

12. Conduct a Chi-square test to analyze the association between smoking habits and lung diseases.

	Lung Disease Present	Lung Disease Absent	Total
Smoker	40	20	60
Non-Smoker	30	110	140
Total	70	130	200