

KAMARAJ COLLEGE (Autonomous)

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(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

(3 Pages)

Reg. No:

Question Code: 26E03414

Course Code : 24UMCF42

UG Degree - End Semester Examinations, April 2026

Fourth Semester

B.SC. CRIMINOLOGY AND FORENSIC SCIENCE

Research Methods and Case Studies

(For those who joined in July 2024 onwards)

Time : 3Hours

Maximum : 75 Marks

PART - A (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer :

- CO:1 1. Which of the following is a characteristic of good research?
K:1 (a) Bias in data collection (b) Subjectivity
(c) Systematic approach (d) Personal opinion
- CO:1 2. Which of the following is a core pillar of research ethics?
K:1 (a) Maximum sample size (b) High budgeting
(c) Beneficence (d) Subjective bias
- CO:2 3. Which of the following is best described a hypothesis
K:1 (a) Summary of final result of the research (b) Proven fact that does not require further testing
(c) Tentative statement predicting relationship between variables (d) General subject area the researcher is interested in
- CO:2 4. What does the scope of the study defines
K:1 (a) Total budget and funding sources for the project (b) The boundaries and limits within which the research will be conducted
(c) Definition of all technical terms (d) List of researchers who have influenced the study
- CO:3 5. Relate the following with the blue print for collection, measurement and analysis of data
K:1 (a) Research hypothesis (b) Research design
(c) Research problem (d) Sampling frame

- CO:3
K:2
6. Data collected from a previous national census report is classified as
- (a) Primary data (b) Secondary data
(c) Tertiary data (d) Quantitative data
- CO:4
K:1
7. Which type of statistics is used to summarize or describe the characteristics of a dataset without making generalizations
- (a) Inferential statistics (b) Descriptive statistics
(c) Predictive statistics (d) Multivariate statistics
- CO:4
K:1
8. Which measure of central tendency is most affected by extreme outliers in a dataset?
- (a) Median (b) Mode
(c) Mean (d) Range
- CO:5
K:1
9. What is the primary goal in a cross examination of case studies
- (a) Prove one case study is superior to another (b) Identify patterns, discrepancies, and commonalities across multiple cases.
(c) Interview the original researchers for bias. (d) Write a summary of a single case.
- CO:5
K:1
10. Which method involves gathering a group of specialists to review findings and provide a multi-perspective validation
- (a) Descriptive Analysis (b) Pilot Testing
(c) Expert Panel (d) Critical Instance

PART - B (5 X 5 = 25 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 250 words.

- CO:1
K:3
11. (a) Identify the primary objectives of a research
- (OR)**
- (b) Develop the criteria for a good research
- CO:2
K:4
12. (a) List out the characteristics of a well defined research problem
- (OR)**
- (b) Distinguish between a research question and a hypothesis
- CO:3
K:4
13. (a) Distinguish between Probability and Non Probability sampling with example
- (OR)**

(b) Compare and contrast primary data and secondary data.

CO:4 14. (a) Distinguish between independent and dependent variables.

K:4 (OR)

(b) Analyze the difference between mean, median and mode.

CO:5 15. (a) Identify the concept of a Cumulative Case Study

K:4 (OR)

(b) Discuss the importance of choosing an expert panel in validating case study analysis

PART - C (5 X 8 = 40 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 500 words.

CO:1 16. (a) Distinguish between Qualitative and Quantitative Research
K:4 with an example.

(OR)

(b) List out the ethical challenges faced by a researcher during data collection and reporting

CO:2 17. (a) Discuss the importance of citations and references in
K:6 maintaining research ethics

(OR)

(b) Elaborate the step by step process of conducting a systematic literature review

CO:3 18. (a) Explain Research design. Discuss the various types of
K:5 research designs.

(OR)

(b) Assess Focus Group Discussions and mention its advantages and disadvantages in research

CO:4 19. (a) Discuss the importance of probability in inferential statistics.

K:6 (OR)

(b) Elaborate google forms and survey monkey and discuss the platform used for large scale academic research project.

CO:5 20. (a) Analyze the relationship between exploratory case study and
K:4 final research design

(OR)

(b) Classify the four types of case studies