



BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – M.Sc.(MB)-2024

Course Name – Research Methodology

Course Code - MMB40212

(Semester IV)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Identify the correct meaning of research.
 - a) Systematic investigation
 - b) Random observation
 - c) Casual inquiry
 - d) Trial and error
- (ii) Identify the first step in the research process.
 - a) Problem identification
 - b) Data analysis
 - c) Report writing
 - d) Hypothesis testing
- (iii) Recognize the importance of research in science.
 - a) Knowledge advancement
 - b) Routine work
 - c) Administrative task
 - d) Documentation only
- (iv) Analyze the role of literature review in research.
 - a) Identifies research gaps
 - b) Repeats experiments
 - c) Increases bias
 - d) Delays study
- (v) Differentiate applied research from basic research.
 - a) Solution-oriented theory development
 - b) Data collection only
 - c) Opinion-based study
 - d) Random experimentation
- (vi) Differentiate qualitative research by its nature.
 - a) Non-numerical data analysis
 - b) Statistical computation
 - c) Laboratory experimentation
 - d) Mathematical modeling
- (vii) Explain the need for research design.
 - a) Provides study framework
 - b) Ensures ethical approval
 - c) Stores data
 - d) Publishes results
- (viii) Construct a suitable research design for hypothesis testing.
 - a) Experimental design
 - b) Exploratory design
 - c) Case study design
 - d) Survey design

- (ix) Interpret the relevance of mixed research approach.
- a) Comprehensive understanding
 - b) Data duplication
 - c) Result suppression
 - d) Time inefficiency
- (x) Analyze measures of central tendency.
- a) Mean median mode
 - b) Data classification
 - c) Graph plotting
 - d) Sample design
- (xi) Apply the use of graphs in data comparison.
- a) Visual clarity
 - b) Text explanation
 - c) Data coding
 - d) Sample selection
- (xii) Apply referencing style usage.
- a) Crediting original sources
 - b) Data summarization
 - c) Plagiarism promotion
 - d) Content repetition
- (xiii) Evaluate journal article formatting standards.
- a) Enhances readability
 - b) Restricts creativity
 - c) Causes bias
 - d) Reduces validity
- (xiv) Evaluate web search tools in literature review.
- a) Comprehensive information access
 - b) Limited sources
 - c) Data duplication
 - d) Reduced efficiency
- (xv) Judge the seriousness of direct plagiarism.
- a) Severe ethical violation
 - b) Acceptable practice
 - c) Minor formatting error
 - d) Referencing style issue

Group-B

(Short Answer Type Questions)
(Answer any Five from the following)

3 x 5=15

2. Define the concept of research. (3)
3. Interpret qualitative research methodology. (3)
4. Assess ethical responsibility of researchers. (3)
5. Describe the purpose of data classification. (3)
6. Design strategies to avoid plagiarism. (3)

OR

Formulate ethical guidelines for authorship. (3)

Group-C

(Long Answer Type Questions)
(Answer any Six from the following)

5 x 6=30

7. Describe the sources and selection of a research problem. (5)
8. Explain the importance of research design in studies. (5)
9. Evaluate the role of computers in research documentation. (5)
10. Assess ethical responsibilities of researchers. (5)
11. Analyze the use of graphical methods in data presentation. (5)
12. Design a suitable research plan for population-based studies. (5)

OR

Formulate a mixed-method research strategy. (5)
