

(8 pages)

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M.Com. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2024.

Third Semester

Commerce — Core

RESEARCH METHODOLOGY

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (15 × 1 = 15 marks)

Answer ALL questions.

Choose the correct answer :

1. Social science research aims at

- (a) Finding explanation of unexplained phenomena
- (b) Clarifying doubtful facts
- (c) Correcting the misconceived
- (d) Finding solution to the problem

2. Pure research aims at

- (a) Extension of knowledge
- (b) Extension view
- (c) Testing of facts
- (d) Clarifying the doubtful fact

3. Sampling technique refers to

- (a) A number of units selected
- (b) A method of collection of sample
- (c) A sample design
- (d) A selection process

4. Hypothesis is

- (a) A test
- (b) An assumption
- (c) A fact
- (d) A constant

5. Which of the following methods of collecting data is economical?

- (a) Questionnaire
- (b) Schedules
- (c) Observation
- (d) Interview

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6. The difference between the primary and secondary data is
- (a) only one degree of detachment with original source
 - (b) 100 degree of detachment with original source
 - (c) 50 degree of detachment with original source
 - (d) no degree of detachment with original source
7. Pre-test is undertaken
- (a) After finalizing the questionnaire
 - (b) After collecting data
 - (c) After processing of data
 - (d) Before finalizing a questionnaire
8. Which one of the condition is necessary for testing t – test?
- (a) $n \leq 30$
 - (b) $n > 30$
 - (c) $n \leq 20$
 - (d) $n \leq 100$
9. The χ^2 test was devised by
- (a) Fisher
 - (b) Gauss
 - (c) Laplace
 - (d) Karl Pearson

10. Which one is the non-parametric test?
- (a) T-test
 - (b) Z-test
 - (c) F-test
 - (d) Rank test
11. In the Mann-Whitney rank sum U-test, it is not necessary that the two samples be of the _____
- (a) Not same size
 - (b) Equal to one
 - (c) Same size
 - (d) Equal to zero
12. The abbreviation for SEM is
- (a) Systematic equation modeling
 - (b) Structural education modeling
 - (c) Structural equation modeling
 - (d) Structural equation mechanics
13. The analysis of variance technique developed in the year
- (a) 1900
 - (b) 1920
 - (c) 1800
 - (d) 1840
14. The final step in the research is
- (a) Drawing design
 - (b) Framing Hypothesis
 - (c) Making interpretation
 - (d) Writing report



15. Bibliography should be prepared in
- A chronological order
 - A numerical order
 - An alphabetical order of the authors
 - A chapter / section of the study

PART B — (5 × 4 = 20 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 250 words.

16. (a) Infer the criteria of a good research.
- Or
- (b) Compare qualitative research with quantitative research.
17. (a) Bring out the precautions in data collection.
- Or
- (b) Explain the stages of validity of a hypothesis.
18. (a) Justify the purpose of pretest.
- Or
- (b) Examine the essentials of a good questionnaire.

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19. (a) A sample of 10 is drawn randomly from a certain population. The sum of the squared deviations from the mean of the given sample is 50. Test the hypothesis that the variance of the population is 5 at 5 per cent level of significance.

Or

- (b) In a correlation study the following values are obtained :

	X	Y
Mean	65	67
Standard deviation	2.5	3.5
Coefficient of correlation	0.8	

Find the two regression equations that are associated with the above values.

20. (a) Identify the characteristics of a research report.
- Or
- (b) List out the funding agencies for business research.

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PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)
Each answer should not exceed 600 words.

21. (a) Analyse the various types of research.

Or

- (b) Give a brief account on the steps in formulation of a research problem.

22. (a) Elaborate the methods of sampling.

Or

- (b) What is a Case study? Outline its features.

23. (a) Interpret the various methods of data collection.

Or

- (b) Summarize the merits and demerits of questionnaire?

24. (a) Organize the procedure followed in one factor analysis of variance.

Or

- (b) A sample of scores of seven student of a class are given as follows :

S.NO.(X)	1	2	3	4	5	6	7
Scores	52	50	56	61	45	54	39

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Use the chi-square test to determine if the above sample has been drawn from a student population whose variance is 25. Test at 5% significance level.

25. (a) Show the steps in report writing.

Or

- (b) Generalize the pros and cons of plagiarism checker tools in a research report.

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