

Qn.Code: MEDC33

N.V.K.S.D. COLLEGE OF EDUCATION

(AUTONOMOUS)

M.Ed. Degree Third Semester Examination, January 2024

(For the candidates admitted during the academic year 2022-2023)

Tool course: ADVANCED RESEARCH METHODOLOGY

Course code: MED3TC003

Time: 3 Hours

Maximum Marks: 70

SECTION A (10 x 1 = 10 marks)

Answer ALL the questions by selecting the appropriate answers

1. The steps undertaken to make a choice between two actions namely rejections or acceptance of a null-hypothesis is
 - a) Formation of hypothesis
 - b) Selecting a significant level
 - c) Procedure for hypothesis testing
 - d) Statistical test
2. The test which is applied when the researcher is interested only in differences and does not make any assertion about the directions of the difference is
 - a) One tailed test
 - b) Two tailed test
 - c) Both one tailed and two tailed tests
 - d) None of the above
3. The expansion of APA is
 - a) Authentic Publication Assistance
 - b) American Psychological Association
 - c) American Psychological Assembly
 - d) American Publishers' Association
4. Appendices contain
 - a) Certificate
 - b) Content
 - c) List of Tables
 - d) Copies of the Tools used.
5. Match the following
 - I. Making up data or results
 - II. Changing or misreporting data or results
 - III. Using the idea of other without appropriate credit
 - a) Falsification
 - b) Plagiarism
 - c) Dishonesty
 - d) Fabrication
 - a) I-a, II - c, III- b
 - b) I-c, II - a, III- b
 - c) I- d, II - a, III- b
 - d) I- d, II - c, III- b

6. The publication of same article in more than one journal is known as
 - a) Redundant publication
 - b) Overlapping publication
 - c) Intellectual honesty
 - d) Copyright
7. A parametric test is
 - a) Mann Whitney Test
 - b) Rank Correlation Test
 - c) t-test
 - d) Kruskal Wallis Test
8. In a 't' test, if calculated value is more than table value, we should
 - a) Accept null- hypothesis
 - b) Reject null-hypothesis
 - c) Go for post-hoc test
 - d) Go for non parametric test
9. Non-parametric test is
 - a) Paired t
 - b) Chi-square
 - c) ANOVA
 - d) ANCOVA
10. The purpose of ANOVA test is
 - a) To compare means of more than two independent groups
 - b) To analyze the correlation between two variables
 - c) To determine the median of a data set
 - d) To assess the normality of data distribution

SECTION B (5 x 3 = 15 marks)

Answer all the FIVE questions in about 100 words each.

11. The procedure of testing hypothesis requires a researcher to adopt several steps. Brief its procedure.
12. Why is the language of research important?
13. Delineate the characteristics of a good dissertation.
14. What is test of significance? Give an example.
15. Differentiate parametric test from non-parametric test.

SECTION C (5 x 5 = 25 marks)

Answer any FIVE questions in about 200 words each.

16. Examine the rationale of including bibliography and appendices in the dissertation.
17. Illustrate Type I error and Type II error.
18. Write short notes on
 - a. One tailed test and
 - b. Two tailed test.
19. What are the different ways to handle publication misconduct?

20. Discuss the use of plagiarism software in research and enlist few plagiarism softwares used in research.
21. Bring out the difference between ANOVA and ANCOVA.
22. What are the applications of Mann Whitney test?

SECTION D (2 x 10 = 20 marks)

Answer BOTH the questions in about 500 words each.

23. a) How do you write a dissertation? Illustrate with an example.
(or)
b) Define ethics in research. Explain the common ethical issues.
24. a) Find out the significance of the means for the following data and give interpretation.

Group	N	Mean	S.D
I	100	42	8
II	50	49	10

For $df = 148$, 't' value from the Table is 1.98 at .05 level.

(or)

- b) Discuss the process of Qualitative data analysis.

