

Qn.Code: MEDC22

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

(AUTONOMOUS)

M.Ed. Degree Second Semester Examination, August 2023
(For the candidates admitted during the academic year 2022-2023)

**Tool course: ESSENTIALS IN EDUCATIONAL RESEARCH
AND STATISTICS**

Course code: MED2TC002

Time: 3 Hours

Maximum Marks: 70

SECTION A (10 x 1 = 10 marks)

Answer ALL the questions by selecting the appropriate answers.

1. The tool used for assessing the degree of performance of students is
a) Check list b) Rating scale c) Anecdotal record d) Questionnaire
2. Personality is measured except using
a) Inventory b) Projective techniques c) Diagnostic test d) Interview
3. Characteristics of an evaluation tool that verifies the truthfulness of items is
a) Validity b) Reliability c) Practicability d) Objectivity
4. The most accurate measure of dispersion is
a) Range b) Mean deviation c) Quartile deviation d) Standard deviation
5. Coefficient of correlation between variables varies from
a) 1 to +1 b) 0 to +1 c) -1 to 0 d) -2 to +2
6. The measurement scale with absolute Zero Point is
a) Interval scale b) Nominal scale c) Ordinal scale d) Ratio scale
7. Most repeated value in a set of scores is referred to as
a) Mean b) Mean Deviation c) Median d) Mode
8. A normal probability curve is
a) Positively skewed b) Negatively skewed
c) Having zero skewness d) Leptokurtic
9. TAT is an example of
a) Observation b) Projective techniques
c) Sociometry d) Interview
10. The difference between a sample statistic and the corresponding population parameter is known as
a) Z- score b) Sampling error c) Non sampling error d) Standard error

SECTION B (5 x 3 = 15 marks)

Answer all the FIVE questions in about 100 words each.

11. Explain the measures of central tendency.
12. Distinguish between qualitative and quantitative data.

13. Describe the methods of establishing reliability of a tool.
14. Write the applications of sociometric technique.
15. Describe the criteria for the selection of tools.

SECTION C (5 x 5 = 25 marks)

Answer any FIVE questions in about 200 words each.

16. Write five items for assessing interest of students towards reading.
17. How will you prepare an achievement test?
18. Describe the stages of standardization of a tool.
19. Illustrate the different types of validity.
20. Explain the different types of correlation.
21. Explain the characteristics of normal probability curve?
22. What is the need of statistics in Educational Research?

SECTION D (2 x 10 = 20 marks)

Answer BOTH the questions in about 500 words each.

23. a) Describe the significance of inferential statistics in research and explain its types.

(or)

b) What are the steps in preparing a questionnaire for assessing the behavioural problems of students?

24. a) Calculate t-value for the following data. How will you interpret the data?
Scores on language proficiency.

Sl. No.	1	2	3	4	5	6	7	8	9	10	11	12
Male	48	45	59	60	34	57	55	48	52	56	54	-
Female	56	60	60	62	56	54	45	51	47	50	57	48

(or)

b) Calculate and interpret the correlation coefficient for the following data

Sl. No	1	2	3	4	5	6	7	8	9	10
Score on anxiety (X)	34	24	32	32	26	30	29	21	26	35
Score on Social adjustment(Y)	46	50	51	54	51	48	39	47	44	48