

MEDC33

**N.V.K.S.D. COLLEGE OF EDUCATION, ATTOOR**  
(AUTONOMOUS)

**M. Ed Degree Third Semester Examination, December 2018**  
(For the candidates admitted for the academic year 2017-2019)

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

Course code: **M3TC1717**

**Time: 3 Hours**

**Maximum Marks: 70**

**SECTION A (10 x 1 = 10 marks)**

**Answer ALL the questions by selecting the appropriate answers.**

1. Likert scale is a
  - a) Five Point Scale
  - b) Seven Point Scale
  - c) Eleven Point Scale
  - d) Three Point Scale
2. The tool which uses equal appearing interval scale
  - a) Questionnaire
  - b) Aptitude test
  - c) Check list
  - d) Attitude scale
3. Hypothesis is a/an
  - a) Statement
  - b) Objective
  - c) Intelligent guess
  - d) Conclusion
4. The expansion of 'APA' is
  - a) American Perfectional Association
  - b) American Primitive Association
  - c) American Physics Association
  - d) American Psychological Association
5. Rejecting a Hypothesis, when it is true is called
  - a) Type I error
  - b) Type II error
  - c) Sampling error
  - d) None of the above
6. The level of significance for one tailed test is
  - a) 0.05
  - b) 0.01
  - c) 0.10
  - d) 0.005
7. If the changes in the variables are in same direction, it is called
  - a) Negative Correlation
  - b) Zero Correlation
  - c) Partial Correlation
  - d) Positive Correlation

8. Internal consistency reliability of a test is established by  
 a) Test Retest Method                      b) Cronbach's Alpha test  
 c) Kuder Richardson                      d) All the above
9. The consistency and stability in measuring what a test is intended to measure is  
 a) Validity                                      b) Reliability  
 c) Objectivity                                  d) Practicability
10. The average of 1, 3, 5, 7, 9 is  
 a) 5.5                      b) 5                      c) 6                      d) 7

**SECTION B (5x3 = 15 marks)**

**Answer all the FIVE questions in about 100 words each.**

11. Differentiate between open-ended and closed-ended questionnaire in educational research.
12. List the criteria for selection of a tool.
13. What do you mean by APA style of referencing?
14. What is the use of ANCOVA in educational research?
15. What is data reduction?

**SECTION C (5 x 5 = 25marks)**

**Answer any FIVE questions in about 200 words each.**

16. Explain different types of Attitude scales.
17. Bring out the salient features of observation method in research.
18. What is the significance of Type I and Type II errors in research?
19. Explain the standard format of a Dissertation in Educational research.
20. In a study of reading achievement, a sample of 162 boys and a sample of 158 girls of Standard X scored as below on a reading achievement test :

Sex	N	Mean	$\sigma$
Boys	162	115	14.52
Girls	158	119	9.81

Assuming that our samples are random, is the difference between the means significant at 0.05 level?

21. What are the uses of Factor analysis in educational research?
22. Explain the procedure of t test for small sample.

**SECTION D (2x 10 = 20 marks)**

**Answer BOTH the questions in about 500 words each.**

23. (a) Explain the steps involved in constructing a research tool.  
 (OR)  
 (b) Discuss the procedure of hypotheses testing using ANOVA.
24. (a) Discuss the characteristics of a good dissertation.  
 (OR)  
 (b) What is the role of SPSS in educational research?