



Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category A by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with A+ Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Master of Education Degree Examination – June / July 2021
II Semester

Class: I M.Ed.

Time : 3 Hours
Max. Marks : 100

20MEDC06 Advanced Educational Research and Statistics

Course Outcomes:

- CO1: choose appropriate quantitative or qualitative method to collect data
CO2: write a research proposal suitable for submission to a research funding body
CO3: carry out independent research using a range of research designs and methods
CO4: maintain respect for individual research contributions and intellectual property rights and demonstrate ethical behavior
CO5: interpret and present the results of an independently conducted statistical analysis

Part A **10 x 1 = 10**
Choose the Correct Answer

1. Which of the following is *not* a contrast between quantitative and qualitative research? CO1K2
 - a. Distance vs. proximity of researcher to participants
 - b. Generalization vs. contextual understanding
 - c. Hard, reliable data vs. rich, deep data
 - d. Interpretivist vs. feminis
2. What is meant by the term "grounded theory"? CO1K1
 - a. Theories should be tested by rigorous scientific experiments
 - b. As a social researcher, it is important to keep your feet on the ground
 - c. Theories should be grounded in political values and biases
 - d. Theoretical ideas and concepts should emerge from the data
3. Who was the author of the book named "Methods in Social Research"? CO1K1
 - a. Kerlinger
 - b. CR Kothari
 - c. Goode and Hatt
 - d. Wilkinson
4. What is a research design? CO3K1
 - a. A way of conducting research that is not grounded in theory
 - b. The choice between using qualitative or quantitative methods
 - c. The style in which you present your research findings, e.g. a graph
 - d. A framework for every stage of the collection and analysis of data
5. Which of the following should not be a criterion for a good research project? CO3K2
 - a. Demonstrates the abilities of the researcher
 - b. Is dependent on the completion of other projects
 - c. Demonstrates the integration of different fields of knowledge
 - d. Develops the skills of the researcher
6. Research that seeks to examine the findings of a study by using the same design but a different sample is which of the following? CO3K1
 - a. An exploratory study
 - b. A replication study
 - c. An empirical study
 - d. Hypothesis testing

7. Standard deviation is: CO5K2
 a. a way of describing those phenomena that are not the norm
 b. inappropriate in management and business research
 c. a way of illustrating crime statistics
 d. a way of measuring the extent of spread of quantifiable data
8. Parametric and non-parametric are CO5 K1
 a. general tests of statistical relevance
 b. two main groups of statistical significance tests
 c. terms used in medical practice
 d. alternatives to standard deviation tests
9. Because of the possibility of error in sampling from populations, researchers use _____ statements to describe results. CO5 K1
 a. Significance b. Probability
 c. Unbiased d. Descriptive
10. Which statement is the best as a general rule for interpreting the level of significance of a statistical test? CO5 K2
 a. If $p < .05$, it is significant.
 b. If $p < .10$, it is statistically significant
 c. If $p > .10$, it is marginally significant
 d. If $p < .01$, it is non-significant

Part B **5 x 6 = 30**

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. What are the characteristics of a good qualitative research? CO1K2
 (or)
- 11.b. Explain the steps involved in Ethnography research. CO1K2
- 12.a. Write about the factors affecting internal and external validity of research. CO1K2
 (or)
- 12.b. Explain Quasi-experimental design with example. CO3K2
- 13.a. Explain the importance and formulation of research report. CO2K4
 (or)
- 13.b. What is Research Ethics? Explain. CO4K2
- 14.a. List out the characteristics of correlation analysis. CO5K2
 (or)
- 14.b. What is Regression equation? What are the uses of Simple Regression equation? CO5K3
- 15.a. Differentiate Parametric and Non Parametric methods. CO5K2
 (or)
- 15.b. What is ANOVA? Explain. CO5K2

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. What is Grounded theory? Explain. CO1K2
 (or)
- 16.b. Classify the qualitative research and its characteristics. CO1K2
- 17.a. What is Research Design? Write about the purpose of research designs. CO3K3
 (or)
- 17.b. How to prepare an experimental design of your study? CO3K4
- 18.a. Prepare a research proposal for your M .Ed. Dissertation. CO2K4
 (or)
- 18.b. Write about Copy right- Intellectual property rights and patent law. CO4K4

19.a. Find the co-efficient of correlation for the following data, using Spearman's Rank order method.

Data	A	B	C	D	E	F	G	H	I	J
A	15	27	35	46	54	54	31	60	70	80
B	70	51	52	41	54	52	71	89	41	40

CO5 K3

(or)

19.b. What is Pearson's Product moment correlation? Explain.

CO5K2

20.a. Describe about the steps of F-test.

CO5K2

(or)

20.b. Explain the Analysis of frequencies using chi-square as test of goodness of fit and test of independence, contingency co-efficient and its uses.

CO5 K6
