



Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD (now MoE)

Re-accredited with A++ Grade by NAAC. CGPA 3.65 /4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

Master of Education Degree Examination – April 2026

II Semester

Class : I M.Ed.

Time : 3 Hours

Max. Marks : 100

25MEDC07 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 result of an independently conducted statistical analysis

Part A

10 x 1 = 10

Choose the Correct Answer

1. Qualitative research primarily focuses on CO1 K1
 - a. numerical data
 - b. statistical analysis
 - c. understanding meaning and experiences
 - d. experimental control
2. The main purpose of qualitative research is to CO1 K2
 - a. predict outcomes
 - b. test theories
 - c. explore and understand phenomena
 - d. measure variables
3. An experimental study is mainly conducted to CO2 K2
 - a. describe a situation
 - b. explore opinions
 - c. establish cause - effect relationship
 - d. interpret experiences
4. The variable that is measured to see the effect of the experiment is CO2 K1
 - a. independent variable
 - b. extraneous variable
 - c. moderator variable
 - d. dependent variable
5. A research report is primarily prepared to CO3 K2
 - a. entertain readers
 - b. present research findings systematically
 - c. prove personal opinions
 - d. criticize other studies
6. Plagiarism in research report writing refers to CO3 K2
 - a. rewriting ideas in simple language
 - b. using original ideas
 - c. using others' work without acknowledgment
 - d. summarizing findings
7. Correlation is a statistical technique used to CO4 K3
 - a. establish cause - effect relationship
 - b. measure the degree of relationship between variables
 - c. compare group means
 - d. test significance of difference
8. In regression analysis, the variable to be predicted is called _____ variable. CO4 K1
 - a. Independent
 - b. Predictor
 - c. Dependent
 - d. Control
9. ANOVA is mainly used when CO5 K2
 - a. two groups are compared
 - b. more than two group means are compared
 - c. data are qualitative
 - d. relationship between variables is studied
10. Chi-square test is used to analyze CO5 K3
 - a. Interval data
 - b. Ratio data
 - c. Qualitative data
 - d. Continuous data

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. Define qualitative research with its characteristics in educational research. **CO1 K2**
(or)
- 11.b. Discuss the role of the researcher in qualitative research. **CO1 K2**
- 12.a. Describe the major types of experimental designs used in educational research with suitable diagrams. **CO2 K2**
(or)
- 12.b. Summarize the advantages and limitations of experimental research in the field of education. **CO2 K2**
- 13.a. Enumerate the ethical considerations and issues of plagiarism in research report writing. **CO3 K4**
(or)
- 13.b. Explain the importance of bibliography and appendix in a research report. **CO3 K2**
- 14.a. Compare the relationship between correlation and regression. **CO4 K2**
(or)
- 14.b. Interpret correlation with its meaning and types. **CO4 K4**
- 15.a. Differentiate parametric analysis from non-parametric analysis. **CO5 K2**
(or)
- 15.b. Explain the concept of one tailed and two tailed test. **CO5 K2**

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. Analyze the steps involved in case study with an example. **CO1 K4**
(or)
- 16.b. Design a qualitative study involving different phases. **CO1 K6**
- 17.a. Explain the steps involved in conducting an experimental study in education, from problem selection to interpretation of results. **CO2 K4**
(or)
- 17.b. Enlighten quasi-experimental research in terms of design, control, validity, and applicability. **CO2 K4**
- 18.a. Describe the structure of a research report and explain the contents of each chapter in detail. **CO3 K2**
(or)
- 18.b. Develop a research proposal on the topic of your interest. **CO3 K6**
- 19.a. Calculate Spearman rank-order correlation from the following data: **CO4 K3**

Subject	Marks									
English	56	75	45	71	62	64	58	80	76	61
Maths	66	70	40	60	65	56	59	77	67	63

- (or)
- 19.b. Explicate the regression and prediction highlighting their characteristics. **CO4 K2**
- 20.a. Give an account of chi square test and its application with example. **CO5 K4**
(or)
- 20.b. Appraise the application of the t-test in educational research. Illustrate your answer with practical examples. **CO5 K4**



K. Sambath

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Master of Education Degree Examination – April 2026 II Semester

Class : I M.Ed.

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25MEDC08 Educational Management

Course Outcomes:

- CO1: Explain the concept of educational administration
- CO2: Apply the essential components of democratic classroom management
- CO3: Develop communication skills for educational administration
- CO4: Understand the role of the Headmaster and the teacher in school management
- CO5: Critically analyse role of administrator in the Educational Institutions

Part A

10 x 1 = 10

Choose the Correct Answer

1. Educational management is mainly concerned with CO1 K2
a. teaching methods only b. administration of schools and institutions
c. student evaluation only d. classroom discipline only
2. The function of management that ensures activities are carried out as planned is CO1 K2
a. organising b. staffing c. controlling d. directing.
3. The purpose of job enrichment is to CO2 K2
a. expand the number of tasks an individual can do b. increase job efficiency
c. increase job satisfaction of middle management d. increase job effectiveness
4. Decision-making authority can be pushed down to a lower level and this is related to CO2 K1
a. centralisation b. delegation c. decentralisation d. destruction
5. The planning focussing on long-term goals, missions, and targets is _____ planning. CO3 K2
a. strategic b. operational c. short-term d. tactical
6. According to the concept of Total Quality Management (TQM) in education, _____ is considered as the primary "customer" whose satisfaction defines success. CO3 K3
a. government funding bodies b. institutional administrators
c. the students and their learning needs d. the building contractors
7. _____ is an objective assessment of an individual's performance against well-defined benchmarks. CO4 K1
a. Performance appraisal b. HR planning
c. Information for goal identification d. Devising a plan
8. The primary purpose of the school Log Book is CO4 K2
a. recording daily fee collection
b. recording important events and incidents in the school
c. maintaining student report cards
d. tracking inventory of school equipment
9. The body responsible for developing the National Curriculum Framework (NCF) is CO5 K1
a. SCERT b. UGC c. NCERT d. NCTE
10. The type of training primarily organized by SCERT for teachers is CO5 K2
a. Pre-school training b. In-service training and workshops
c. Technical skill training d. Foreign language training

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. Discuss planning as the most important function of educational management and explain how it helps in achieving institutional goals. **CO1 K2**
(or)
- 11.b. Elaborate the role of system approach to educational management. **CO1 K2**
- 12.a. Suggest the ways of ensuring effective institutional discipline. **CO2 K6**
(or)
- 12.b. Explain the concept and dimensions of organizational climate. **CO2 K2**
- 13.a. Give the meaning and importance of institutional planning. **CO3 K2**
(or)
- 13.b. Briefly explain the principles of an effective staff meeting. **CO3 K2**
- 14.a. Identify the qualities of a Headmaster. **CO4 K2**
(or)
- 14.b. Criticize on importance of PTA. **CO4 K4**
- 15.a. Discuss the need and salient features of secondary school code. **CO5 K4**
(or)
- 15.b. Describe the types of Grant-in- Aid. **CO5 K2**

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. "Educational management is a social process." - Justify with appropriate illustrations. **CO1 K5**
(or)
- 16.b. "Efficient educational management is essential for quality education." - Criticize. **CO1 K4**
- 17.a. Compile the role of a leader in fostering democratic institutional climate for effective performance. **CO2 K6**
(or)
- 17.b. "Job satisfaction and effective performance are interrelated to each other" – Analyze. **CO2 K4**
- 18.a. Discuss on the concept of managing curricular and co-curricular events in an educational institution. **CO3 K4**
(or)
- 18.b. Suggest the criteria for assessing the quality of educational institutions. **CO3 K6**
- 19.a. Comment on the importance of essential records maintained in the school. **CO4 K4**
(or)
- 19.b. Analyze the importance and criteria of performance appraisal of teachers. **CO4 K4**
- 20.a. Critically analyze the national and international systems of education in India. **CO5 K4**
(or)
- 20.b. Summarize the functions of NCERT and SCERT. **CO5 K4**
