MACHAKOS UNIVERSITY

University Examinations 2024/2025 Academic Year

SCHOOL OF EDUCATION
DEPARTMENT OF EDUCATION MANAGEMENT AND CURRICULUM STUDIES

FIRST YEAR FIRST SEMESTER EXAMINATION FOR
DOCTOR OF PHILOSOPHY IN EDUCATION

EMP 901: ADVANCED RESEARCH METHODOLOGY

DATE: 27TH FEBRUARY, 2025 **TIME: 9.00 AM – 12.00 PM**

INSTRUCTIONS

i. Switch off your mobile phone and any other gadgets while the examination is in progress.
ii. Do not write anything on the question paper.
iii. Answer questions One and any other Two questions

QUESTION ONE (20 MARKS)

a) Explain the importance of educational research (5 Marks)
b) Explain the various techniques of coming up with a research topic (10 Marks)
c) Explain five characteristics of research objectives (5 Marks)

QUESTION TWO (20 MARKS)

a) Explain the structure and purpose of the following chapters of a research proposal
   i. Introduction
   ii. Literature review
   iii. Methodology (10 Marks)
b) Discuss any three research designs that are ideal for using in qualitative research (10 Marks)

QUESTION THREE (20 MARKS)

a) Using suitable examples, distinguish between the following pairs of terms
   i. Limitation and delimitation of the study
   ii. Validity and reliability in research

(4 Marks)

b) Assuming that you are developing a conceptual framework to carry out a study on "Resources as a Determinant of Students' Performance in Universities"

i. Explain three methods that you're likely to use to select a sample for your study (6 Marks)

ii. Use a pictorial chart to show the relationship among various variables in your study. (8 Marks)

iii. Explain the relationship among various variables as demonstrated in (ii) above (2 marks)

QUESTION FOUR (20 MARKS)

a) Explain each of the following as applied in research (5Marks)

i. Hypothesis
ii. Theory
iii. Concept
iv. Research Proposal
v. Pilot study

b) Identify and explain **five** differences between a research proposal and thesis. (5 Marks)

c) Discuss five ethical considerations in educational research and mention the challenges researchers may face when they fail to adhere to them. (10 Marks)

QUESTION FIVE (20 MARKS)

a) Using examples distinguish between a work plan and a budget in research (4 Marks)

b) Explain the importance of work plan in research (8 Marks)

c) Outline the challenges that are faced in preparation of work plans (8 Marks)