



MACHAKOS UNIVERSITY

University Examinations 2016/2017

SCHOOL OF EDUCATION

DEPARTMENT OF EDUCATION MANAGEMENT AND CURRICULUM STUDIES

FIRST YEAR APRIL SESSION EXAMINATION FOR MASTER OF EDUCATION

ECC 800: RESEARCH METHOD IN EDUCATION

DATE: 26/8/2017

TIME: 8.30-10.30 AM

INSTRUCTIONS

Answer Question One and Any Other Two Questions

QUESTION ONE (20 MARKS)

- a) Distinguish the following terms as applied in research:
- i. Sample Survey and Census Survey (2 marks)
 - ii. Content Validity and Criterion Related Validity (2 marks)
 - iii. Limitation and Delimitation of a study (2 marks)
- b) Explain the main components of a research proposal (6 marks)
- c) Table 1.0 indicates the population (N) and standard deviation (S) within different strata in the general population. Compute the number of elements that should be selected from each stratum to make a total sample of 500. (8 marks)

Table 1.0: Population and Standard Deviations in Different Strata

Stratum	Population (N _i)	Standard Deviation (S _i)
A	700	0.7
B	300	1.0
C	500	0.9
D	350	1.2
E	150	1.5

QUESTION TWO (20 MARKS)

- a) Outline the characteristics of a good research topic of a research topic (4 marks)
- b) Using relevant examples, explain any two types of research hypotheses (4 marks)
- c) Explain the reasons why knowledge of research method is important to educational managers (5 marks)
- d) Explain the importance of literature review in research (7 marks)

QUESTION THREE (20 MARKS)

- a) Explain any five ethical procedures that should be upheld when conducting research (10 marks)
- b) Use the following information to answer questions (i), (ii) and (iii)
Job carried out a study whose title was ‘The Effect of Performance Management Practices on Productivity among lecturers of Machakos University’. The objectives of the study were:
 - i. To identify the performance management practices implemented in Machakos university
 - ii. To determine the effect of performance appraisal on productivity among lectures of Machakos University
 - iii. To determine the effect of training on productivity among employees of Machakos University
 - iv. To determine the effect of promotion on productivity among employees of Machakos University
- i) Formulate appropriate research question(s) and hypotheses for the study (4 marks)
- ii) Develop an appropriate conceptual framework for the study (6 marks)

QUESTION FOUR (20 MARKS)

- a) Explain the limitations of traditional sources of knowledge (5 marks)
- b) By use of visual representations or otherwise, explain the following types of research designs
 - i. Experimental design (10 marks)
 - ii. Survey design (5 marks)

QUESTION FIVE (20 MARKS)

- a) Explain the process of data analysis for quantitative research approach (7 marks)
- b) By the use of relevant examples, explain the types of items found in a questionnaire (4 marks)
- c) Explain any five methods for administration of a questionnaire (5 marks)
- d) Explain any four strategies that can be used to determine the sample size of a study (4 marks)