



MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF EDUCATION

DEPARTMENT OF EDUCATIONAL MANAGEMENT AND CURRICULUM STUDIES

APRIL SESSION EXAMINATION FOR MASTER OF EDUCATION

ECC 800: RESEARCH METHODS IN EDUCATION

DATE: 7/8/2019

TIME: 8.30-11.30 AM

INSTRUCTIONS:

Answer **QUESTION ONE** and any other **TWO QUESTIONS**

QUESTION ONE

- a) Explain two sources of traditional knowledge (4 marks)
- b) Highlight **four** limitations of traditional sources of knowledge in research (4 marks)
- c) Using suitable examples, describe any **three** qualities of a good research topic (6 marks)
- d) Using suitable examples, explain **three** disadvantages of using an interview to collect data in scientific research (6 marks)

QUESTION TWO

- a) Explain the meaning of the term **probability sampling** as applied in educational research (2 marks)
- b) Citing relevant examples, explain **four** probability sampling techniques that can be used to select a sample when conducting survey research (8 marks)
- c) Explain the challenges encountered in selecting a sample in survey research. (10 marks)

QUESTION THREE

‘Assuming that you have been invited as a facilitator in a workshop to train researchers on the topic ‘Case **Study**’.’ Using suitable examples explain;

- a) **Four** types of case studies (8 marks)
- b) **Six** principles of a case study. (12 marks)

QUESTION FOUR

- a) Describe two methods of determining the reliability of research instruments (4 marks)
- b) Explain the steps a researcher should follow to establish the reliability of a questionnaire using any of the method identified in (4a) above. (8 marks)
- c) By the use of relevant examples, give four assumptions you may make when using a t-test to analyze data (8 marks)

QUESTION FIVE

- a) Using suitable examples, explain **three** challenges students face when formulating the background to a study (6 marks)
- b) Explain the steps followed in carrying out a literature review in Educational Research. (8 marks)
- c) Using suitable examples, explain three ethical principles that should be adhered to in scientific research. (6 marks)