



MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF EDUCATION

DEPARTMENT OF EDUCATIONAL MANAGEMENT AND CURRICULUM STUDIES

SECOND YEAR FIRST SEMESTER EXAMINATION FOR
MASTER OF EDUCATION PLANNING

EMP 814: DATA COLLECTION, ANALYSIS AND APPRAISAL IN EDUCATIONAL
PLANNING

DATE: 15/1/2022

TIME: 8.30-11.30 AM

INSTRUCTIONS

- i. Switch off your 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 Three

QUESTION ONE

- a) Explain the meaning of following terms as used in research:
 - i. Simple Random Sampling
 - ii. Mode
 - iii. Range
 - iv. Variable
 - v. Theory (5 marks)
- b) Using relevant examples, explain **FOUR** reasons why a researcher should avoid plagiarizing academic work (4 marks)
- c) Using suitable examples, explain the steps followed when selecting a title for a research study (6 marks)

QUESTION TWO

- a) Describe the steps used when using the split-half method to determine the reliability of a research instrument (7 marks)
- b) Using suitable examples, explain **FOUR** challenges a researcher may encounter when establishing the validity of a research instrument (4 marks)
- c) Explain **FOUR** strategies a researcher may adopt to minimize the challenges identified in (2b) above (4 marks)

QUESTION THREE

- a) Using appropriate examples, explain any **FOUR** reasons that a researcher may prefer to use research questions instead of research hypotheses in a study (6 marks)
- b) Explain **FOUR** challenges a student may encounter when using a questionnaire to collect data in educational research (4 marks)
- c) Using suitable examples, discuss **FIVE** measures that can be put in place to mitigate against the challenges identified in 3(b) above (5 marks)

QUESTION FOUR

- a) Using hypothetical data, explain the **THREE** measures of central tendency as applied in research . (6 marks)
- b) Citing relevant examples, explain **FOUR** factors to consider when selecting a method of data analysis. (6 marks)
- c) Using relevant examples, explain the importance of a conceptual framework in academic research (3 marks)

QUESTION FIVE

- a) “Many stakeholders are concerned about postgraduate students taking more time to complete their studies against the stipulated programme duration”. Discuss the validity of this statement. (10 marks)
- b) Using suitable examples, explain five measures that can be put in place to mitigate against the challenges identified in 5(a) above (5 marks)