MACHAKOS UNIVERSITY

University Examinations 2020/2021 Academic Year

SCHOOL OF EDUCATION

DEPARMENT OF EDUCATIONAL MANAGEMENT AND CURRICULUM STUDIES

FIRST YEAR FIRST SEMESTER EXAMINATION FOR

MASTER OF EDUCATION PLANNING

EMP 814: DATA COLLECTION ANALYSIS AND APPRAISAL IN EDUCATIONAL PLANNING

DATE: 27/2/2021   **TIME: 8.30-11.30 AM**

INSTRUCTIONS

ANSWER QUESTIONS ONE AND ANY OTHER THREE

QUESTION ONE (15 MARKS)

"Assuming that you have been invited to train assistant researchers on the use of an interview in data collection" Using this case study:

a) Describe **four** steps followed when developing an interview schedule   (4 marks)

b) Explain **five** demerits of using an interview as a data collection instrument   (5 marks)

c) Explain **six** ways you may adopt to minimise the challenges encountered when using an interview to collect data   (6 marks)

QUESTION TWO (15 MARKS)

a) Explain **five** criteria that should be considered when selecting a title for a study   (5 marks)

b) Using relevant examples, explain four challenges that a postgraduate student may face by when selecting a title for a study   (4 marks)

c) Using relevant examples, explain three techniques that you can use to select a sample for a study   (6 marks)

QUESTION THREE (15 MARKS)

a) Using hypothetical data, explain the meaning of following of measures of dispersion;

    i.   Range

    ii.   Variance

    iii.   Standard Deviation   (6 marks)

b) Explain **four** forms of ethical principles that should be upheld in educational research

             (6 marks)

c) Using suitable examples, explain **three** problems a researcher may encounter emanating from the failure to adhere to ethical principles in educational research   (3 marks)

QUESTION FOUR (15 MARKS)

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 minimise the challenges identified in (4b) above   (4 marks)

QUESTION FIVE (15 MARKS)

a) Explain three properties of the mean   (3 marks)

b) The following table presents marks of 50 students in a mathematics test

Class interval	Frequency
40-49	17
35-39	13
30-34	9
25-29	5
20-24	10

Using the information from the table, calculate

    i.   The modal class   (2 marks)

ii.   Mean   (10 marks)