



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2017/2018 ACADEMIC YEAR  
FIRST YEAR FIRST SEMESTER**

**SCHOOL OF EDUCATION  
MED (EDUCATION ADMINISTRATION)**

**COURSE CODE: EMP 894B  
COURSE TITLE: RESEARCH METHODS  
AND DESIGNS**

**DATE: 16<sup>TH</sup> MAY 2018**

**TIME: 0830 – 1130 HRS**

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**INSTRUCTIONS TO CANDIDATES**

Question **ONE** is compulsory

Answer any other **TWO** questions

### QUESTION ONE (Compulsory)

a) Discuss the meaning of longitudinal research design and explain three factors that may impede its application in educational research.

**(8 Marks)**

b) A master's degree proposal bears the title "Effects of Remedial Mathematics on Achievement in Mathematics". From this topic, explain three types of Variables that apply to the study and give one examples for each.

**(12 Marks)**

c) Using specific example discuss any five units of analysis in educational research.

**(10 Marks)**

### QUESTION TWO

a) Using relevant examples explain the meaning of the terms, limitation, delimitation and assumptions as applied in research.

**(7 Marks)**

b) A research proposal bears the following four objectives:

i. To determine the difficulty level of the textbooks; [L] [SEP]

ii. To find if all the books treat all topics in the syllabus sequentially; [L] [SEP]

iii. To compare the understanding of the books between students in [L] [SEP] public schools with those in private schools; and [L] [SEP]

iv. To find out if students in rural areas understand the books as much as [L] [SEP] those in urban areas. [L] [SEP]

Convert objectives (i) and (ii) into research questions and objectives (iii) and (iv) into hypotheses.

**(8 Marks)**

### **QUESTION THREE**

a) Identify and explain (i) three time related constraints and (ii) four financial related constraints that a researcher need to consider in order to complete his/her research project within the stipulated time.

**(7 Marks)**

b) Discuss any four purposes of literature review in an educational research study.

**(8 Marks)**

### **QUESTION FOUR**

a) Explain any four functions of a theory in an educational research proposal.

**(8 Marks)**

b) Discussing the strengths and shortfalls of survey research.

**(7 Marks)**

### **QUESTION FIVE**

a) Giving relevant examples, discuss any four threats to internal validity in experimental research designs.

**(8 Marks)**

b) (i) Discuss any four disadvantages of using questionnaires as a tool for collecting data in a research.

**(4Marks)**

(ii) Explain other methods of data collection that a researcher could use to overcome the limitations in b(i) above.

**(3Marks)**

**END//**