



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

MAIN EXAMINATION

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AUGUST - DECEMBER 2015 TRIMESTER

FACULTY OF EDUCATION

DEPARTMENT OF UNDERGRADUATE STUDIES IN EDUCATION

REGULAR PROGRAMME

ED 103: RESEARCH METHODS

Date: DECEMBER 2015

Duration: 3 Hours

INSTRUCTIONS: Answer Question ONE and ANY other THREE Questions

- Q1. a) i Define the following terms as used in research
- i Reasoning. **(2 marks)**
 - ii Independent variable. **(2 marks)**
 - iii Extraneous variable. **(2 marks)**
- ii Define the term hypothesis and explain the TWO types of hypothesis. **(6 marks)**
- b) State the reasons for using an interview guide as a data collection instrument. **(4 marks)**
- c) Explain the aims of research. **(4 marks)**
- d) Outline the role of research in development of educational programs. **(5 marks)**
- Q2. Analyze the characteristics of research. **(15 marks)**
- Q3. Distinguish between qualitative and quantitative research paradigms. **(15 marks)**

- Q4. Show the steps a researcher follows to come up with a research proposal. **(15 marks)**
- Q5. What is the importance of carrying out review of related literature in research? **(15 marks)**
- Q6. a) Identify the mode and median in the following data; **(6 marks)**
4, 6, 3, 5, 10, 11, 12, 16, 18, 17, 21, 4, 7
- b) Students in a form two examination scored as shown in the data provided

30, 50, 48, 60, 28, 36, 72, 38, 54, 56, 62, 44, 45, 58
- i Using the above data calculate the range. **(2 marks)**
- ii Use the same data to calculate the mean. **(4 marks)**
- c) What is the importance of calculating the mean of student scores. **(3 marks)**

END