



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE
AND TECHNOLOGY**

UNIVERSITY EXAMINATION 2012/2013

**1ST YEAR 2ND SEMESTER EXAMINATION FOR THE DEGREE
OF MASTER OF EDUCATION ADMINISTRATION**

KISUMU LEARNING CENTRE

COURSE CODE: EMA 840

TITLE: RESEARCH METHODS II

DATE: 28/8/2013

TIME: 9.00-12.00NOON

DURATION: 3 HOURS

INSTRUCTIONS

- 1. This paper contains FIVE (5) questions**
- 2. Answer question 1 (Compulsory) and ANY other 2 Questions**
- 3. Write all answers in the booklet provided**

Question One

- (a) Describe the steps to be followed when choosing an area of study. (10 mks)
- (b) What are the challenges likely to be faced when choosing a research topic? (10 mks)

Question Two

- (a) Distinguish between a conceptual framework and a theoretical framework. (4 mks)
- (b) Discuss the significance of a conceptual framework in research. (8 mks)
- (c) Explain four qualities of an effective conceptual framework. (8mks)

Question Three

(a) Using relevant examples, explain the following terms as used in research.

- (i) Reliability (3mks)
- (ii) Validity (3mks)
- (iii) Replicability (3mks)

(b) Discuss the main threats to reliability in research. (11 mks)

Question Four

(a) Discuss the following research designs, giving two advantages and disadvantages in each case.

- i) Survey. (5 mks)
- ii) Case study (5 mks)
- iii) Cross-sectional (5 mks)
- iv) Longitudinal (5 mks)

Question 5

- (a) Distinguish between categorical and quantifiable data. (4mks)
- (b) Using examples to illustrate your answer, describe how you would use regression and correlation analysis in your research. (8 mks)

(c) A colleague has collected data from a sample of 103 students of a local university. He presents you with the following output from the statistical analysis software:

Information technology facilities at this university are...

	Good	Reasonable	Poor	Row totals
Undergraduate	63	18	8	86 (83.5%)
Postgraduate	6	4	7	17 (16.5%)
Column totals	69 (67.0%)	22 (21.4%)	12 (11.6%)	103 103

Chi square= 18.33, degrees of freedom = 2, Probability<.01.

Explain what the information above tells you about undergraduate and postgraduate students' opinion of the information technology facilities. (8 mks)