JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION 2012/2013
1ST YEAR 1ST SEMESTER EXAMINATION FOR THE DEGREE OF MED EARLY CHILDHOOD DEVELOPMENT

KISII LEARNING CENTRE

COURSE CODE: **ECE 801**

TITLE: **RESEARCH METHOD**

DATE: 15/4/2013   TIME: 8.00-11.00AM

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

Q1. (a) As a student of this class, examine the points for and against the inductive (induction) method of reasoning in research. (10marks)

(b) Explain why scientific research is preferable as opposed to deductive reasoning when carrying out research. (5marks)

(c) As a historical researcher, how would you make sure that the data you collect from your respondents are credible? (5marks)

Q2. (a) Evaluate the possibility of Postgraduate students using longitudinal research design for their Master/Doctoral thesis. (7marks)

(b) What are some of the challenges a Master of Education student might face if he/she chose to use a case study design in his/her Master of Education thesis? (8marks)

(c) Examine the problems an education researcher is likely to encounter in data collection for his/her research project when using true experimental research design. (5marks)

Q3. Many researchers in Education and from other disciplines of research look at qualitative methodology of research as subjective. Discuss this thinking by giving points for and against considering, data collection, analysis and the findings. (20marks)

Q4. (a) What are the strengths of using in-depth interviews in collecting data for a research project? (4marks)

(b) Simple random sampling is crucial in research work. Account for its importance. (4marks)

(c) Use simple random sampling techniques to select a sample for your research project from the population given here below. Use the table of random numbers attached and the starting point and the direction of movement is indicated in the table of random numbers by an arrow. The fraction of the sample to be taken is of the population. All steps to be followed should be shown. (12marks)

THE POPULATION

1. Njoroge John
2. Ojwang Ogora
3. Mary Mabeya
4. Teresa Mwita
5. Tabitha Mageka
6. Charles Kioko
7. Juma Motego
8. Akinyi Odongo
9. Tipis Tengecha
10. Yunes Ochwari
11. Janneth Kimoi
12. Dorcas Scar
13. Odhiambo Isaac
14. Mauti Philip
15. Otondi Ibrahim

Q5.   (a)   Examine observation schedule as an instrument of collecting data for your research project.   (6marks)

(b)   What are the strengths and weaknesses of using structured interviews for data collection?   (8marks)

(c)   What would you do as a researcher to make sure that your instruments for data collection are valid and reliable?   (6marks)