



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF SPATIAL PLANNING AND NATURAL RESOURCE MANAGEMENT
UNIVERSITY EXAMINATION FOR DEGREE OF MASTER OF SCIENCE IN URBAN
ENVIRONMENTAL PLANING AND MANAGEMENT**

1ST YEAR 1ST SEMESTER 2013/2014 ACADEMIC YEAR

MAIN

COURSE CODE: APP 804

COURSE TITLE: RESEARCH METHODOLOGY

EXAM VENUE: GIS LAB

STREAM: (MA Spatial Planning)

DATE: 16/04/14

EXAM SESSION: 2.00 – 5.00 PM

TIME: 3.00 HOURS

Instructions:

- 1. Answer question 1(Compulsory) and ANY other 2 questions**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

- Q1. (a) Explain the meaning of the term '**research**' highlighting characteristics of a good research question [5Marks]
- (b) Explain the difference between **inductive** and **deductive** reasoning in research giving an example in each case. [5Marks]
- (c) Differentiate between **reliability** and **validity** in relation to choice of indicators for measuring a concept during a research [5Marks]
- (d) Discuss any **five** characteristics of a good **theory** [5Marks]
- Q2. (a) Distinguish between a research design and sample design [2Marks]
- (b) Describe each of the following research designs highlighting the advantages and disadvantages of each.
- (i) Quantitative and qualitative research [6Marks]
- (ii) Cross-sectional and longitudinal research [6Marks]
- (iii) Case study and representative research [6Marks]
- Q3. (a) Discuss guiding principles for formulating questions to be included in a questionnaire or interview guide/schedule [10Marks]
- (b) Explain what a focus group discussion means, giving its uses and when it may be appropriate to use it as a data collection method [10Marks]
- Q4. (a) Explain why researchers use samples of their study population [5marks]
- (b) Describe factors that you would consider when selecting techniques to be used in analyzing quantitative data [15Marks]
- Q5. Discuss the ethical principles governing social research [20Marks]