



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE &
TECHNOLOGY UNIVERSITY EXAMINATIONS 2012/2013**

**1ST YEAR 2ND SEMESTER EXAMINATION FOR THE MASTER
IN EDUCATION GUIDANCE AND COUNSELLING**

(KISUMU LEARNING CENTRE)

COURSE CODE: EDU 801

COURSE TITLE: RESEARCH METHODS

DATE: 28/8/13

TIME: 9.00 – 12.00 NOON

DURATION: 3 HOURS

INSTRUCTIONS

This paper contains five (5) questions.

Answer any three questions.

Write all answer in the booklet provided.

1. Give details of each of the methods of educational research and indicate its value in studying educational issues. (20marks)
2. Differentiate between the following pairs of terms used in educational research
 - a. Descriptive and Inferential statistic. (4marks)
 - b. Dependent and Independent variable. (4marks)
 - c. Null and Alternative Hypothesis. (4marks)
 - d. Parametric and Non-Parametric Statistical tests. (4marks)
 - e. Type I and Type II errors in Testing Hypothesis. (4marks)
3. (a) Discuss research as a systematic approach in solving educational issues. (10marks)
 (b) Discuss factors to consider in selection and statement of a problem in educational research. (10marks)
4. Statistical tests used in testing of hypothesis can either be parametric or non-parametric depending on the type of data. Discuss what guides the choice of statistical test in testing hypothesis. (20marks)
5. The following scores were attained by 40 university students on an English examination

42	88	87	75	98	91	82	96	80	52	76	66
54	76	48	88	62	58	79	68	56	54	55	52
65	49	80	67	59	88	60	44	71	72	87	91
82	89	79	67								

 - a. Taking the class interval of 5 and a top of class 96-100 use the above scores to compute the following statistical measures
 - i. Median.
 - ii. Mode.
 - iii. Mean.
 - iv. Standard Deviation.
 - b. Compute the mid-points to x-scores.
 - c. From the computed values in (a) and (b) above describe the general performance of the university students.
 - d. Determine the percentile ranks of 85, 63 and 43 .

(20marks)