



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF EDUCATION**  
**DEPARTMENT OF SPECIAL NEEDS EDUCATION AND EARLY CHILDHOOD**  
**DEVELOPMENT**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF**  
**EDUCATION- EARLY CHILDHOOD EDUCATION**  
**YEAR 4 SEMESTER 1 2018/2019 ACADEMIC YEAR**  
**KISUMU CAMPUS**

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**COURSE CODE: PSY 410**

**COURSE TITLE: TESTS AND MEASUREMENT**

**VENUE: STREAM: BED.ECDE**

**DATE: EXAM SESSION:**

**TIME: 2 HOURS**

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**Instructions:**

- 1. Answer Question ONE (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.**

### **Question One**

- a) Define the following terms
  - i) Standard deviation (1mark)
  - ii) Power test (1mark)
  - iii) Reliability (1mark)
  - iv) Variance (1mark)
- b) Identify four factors affecting validity of a test (4 mark)
- c) Analyze six functions of evaluation and assessment (6 mark)
- d) In a class of 8 students, the following scores were achieved in a mathematics and physics examination.

Student No	1	2	3	4	5	6	7	8
Marks in Physics	66	70	25	56	51	61	41	30
Marks in Maths	58	56	39	59	65	58	38	37

From the above data

- i) Compute the Pearson Product Moment Correlation coefficient for the two sets of scores (12marks)
- ii) Interpret the r scores (1mark)
- iii) Explain any three levels of measurement (3marks)

### **Question Two**

- a) Explain how test- retest is used to determine reliability of a given test (10marks)
- b) List and explain any four types of validity (8marks)
- c) In a given test, the reliability of a half test was 0.6, what is the reliability of the full test (2marks)

### **Question Four**

- a) Discuss five ethical practices which may enhance the quality of examinations in the public universities in Kenya (10marks)
- b) Give a critical analysis of tests used in evaluation and assessment of learners (10marks)

### **Question Four**

- a) Discuss the four main types of tests (8marks)
- b) List and explain six steps involved in test development (12marks)

### **Question five**

Discuss the history of measurement and evaluation in the 19<sup>th</sup> century (20marks)