



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF EDUCATION
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION
(ARTS) WITH IT
4TH YEAR 1ST SEMESTER 2017/2018 ACADEMIC YEAR
KISII CAMPUS- FULLTIME

COURSE CODE: PSY 410

COURSE TITLE: TESTS AND MEASUREMENTS

EXAM VENUE: **STREAM: (BED)**

DATE: **EXAM SESSION: DECEMBER 2017**

TIME: 2 HOURS

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 1

a) Define the following terms:

- i) A test (2mks)
- ii) Instructional objectives (2mks)
- iii) Reliability (2mks)

b) The following were the scores obtained by a form TWO class in an English test:

49	63	59	44	49	51	62	37	30	49
53	68	36	57	32	54	42	50	52	45
46	37	48	53	46	50	40	44	63	46
56	42	41	40	56	37	66	43	40	44
63	46	63	44	40	56	43	40	51	69

- i) Group this data starting with 30-34 as the lowest class (5mks)
 - ii) Using i) above calculate the mean, modal class and median (8mks)
 - iii) Comment on your answers in ii) above (3mks)
- c) Briefly discuss any FOUR uses of tests in an education system (8 mks)

QUESTION 2

- a) Briefly discuss any FIVE characteristics of a good test (10mks)
- b) Briefly discuss any FIVE types of tests (10mks)

QUESTION 3

- a) Briefly discuss the differences between criterion and norm referenced testing (8mks)
- b) When evaluating the quality of items, different criteria are used. Discuss any THREE such criteria. (12mks)

QUESTION 4

- a) In a class of 48 students, 18 of the students got a question correctly. Calculate the difficulty index level (4mks)
- b) Briefly explain your answer in a) above (2mks)
- c) Briefly discuss any FIVE factors influencing validity (10mks)
- d) Briefly discuss any Two types of validity (4mks)

QUESTION 5

The table below shows distribution of marks for 50 candidates in an examination.

Marks	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99
Number of candidates	3	4	4	5	10	8	6	5	4	1

Calculate;

- a) Variance (8 mks)
- b) Standard deviation (4 mks)
- c) Briefly comment on your answer in a) and b) above (3mks)
- d) In a class of 100 students, the mean of a test is 15 and standard deviation is 2.5. Assuming these 100 scores have a normal distribution, how many scores lie between 12.5 and 17.5? (5mks)