



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

UNIVERSITY EXAMINATIONS

PSY 410: EDUCATIONAL TESTS AND MEASUREMENT

YEAR 4 SEMESTER 1- 2016

MAIN CAMPUS

INSTRUCTIONS:

Answer Question 1 and Any other TWO Questions

1a) Define the following terms:

- i) Assessment (1mk)
- ii) Instructional Objectives (1mk)
- iii) Measurement (1mk)

b). State any FIVE functions of tests in education (5mks)

c). Give a brief outline of the Item Response Theory (3mks)

d). Outline any THREE ways in which multiple choice questions can be presented to sample various levels of learning (3mks)

e). In a class of 75 students, 22 of them got a question correctly. Determine the difficulty Index for the question (3mks)

f). The table below shows students' scores for tests in Psychology (X) and Anxiety test (Y)

Psychology Test (X)	72	73	75	76	77	78	79	80	81	82	83	84	85	86	88
Anxiety Test (Y)	45	38	41	35	31	40	25	32	36	29	34	38	26	32	28

- i). Compute the Pearson Product Moment Correlation coefficient for the two sets of scores (12mks)
- ii). Interpret the 'r' score (1mk)
2. Discuss the Scaling Theory as outlined by the psychologist Stanley Smith Stevens (20mks)
- 3a). Describe how the Split-Half method is used to determine the reliability for a given test (5mks)
- b). Explain how tests can be used to improve learning (5mks)
- c). Identify and explain any FIVE general rules that guide test development (10mks)
- 4a). Discuss Gronlund's FIVE principles on test construction (10mks)
- b). Describe the Affective Domain of educational objectives (10mks)
- 5a). Outline five objectives of item analysis (2mks)
- b). Explain the two indicators of items analysis (6mks)
- c). Discuss three types of discrimination indices (9mks)