



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 – Meru-Kenya.
Tel: +254(0) 799 529 958, +254(0) 799 529 959, +254 (0)712 524 293
Website: www.must.ac.ke Email: info@mucst.ac.ke

UNIVERSITY EXAMINATIONS 2023/2024

FIRST YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN POST GRADUCATE
EDUCATION

EMG 4150: EDUCATIONAL TESTS AND MEASUREMENT

DATE: APRIL 2024

TIME: 2 HOURS

INSTRUCTIONS: Answer Question ONE and any other THREE questions.

QUESTION ONE (24 MARKS)

- Differentiate educational testing from measurement and explain their importance in the field of education (6 marks)
- Using appropriate examples, distinguish between formative and summative assessments in education. (6 marks)
- Discuss three characteristics of a good test and provide examples to illustrate these characteristics. (6 marks)
- Explain the concept and benefits of standardization in educational testing. (6 marks)

QUESTION TWO: 12 MARKS

Discuss the importance of a Table of Specifications in the context of educational assessment. Provide examples to illustrate its significance in designing and evaluating tests.

QUESTION THREE: 12 MARKS

A lecturer wanted to investigate the relationship between the number of hours students spent studying per week and their exam scores. The lecturer collected data from a sample of 10 students and recorded the following information:



Student	Study Hours	Exam Score (out of 100)
1	4	60
2	6	70
3	3	55
4	7	75
5	5	65
6	4	62
7	8	80
8	5	68
9	6	72
10	7	78

Calculate and comment on the correlation coefficient between the number of study hours per week and exam scores for these students.

QUESTION FOUR: 12 MARKS

- a. Explain the concept of competence-based assessment in education. (4 marks)
- b. Discuss the significance of it and give two examples of how it is implemented in educational settings. (8 marks)

QUESTION FIVE: 12 MARKS

Explain the steps involved in constructing a **valid** and **reliable** test.

