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UNIVERSITY EXAMINATIONS 2023/2024

FIRST YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN POST GRADUATE
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)

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

