UNIVERSITY OF SWAZILAND

FACULTY OF EDUCATION

DEPARTMENT OF EDUCATIONAL FOUNDATIONS AND MANAGEMENT

JULY, 2014

SUPPLEMENTARY EXAMINATION PAPER

COURSE CODE	: EDF 321
TITLE OF PAPER	: MEASUREMENT AND TESTING
TIME ALLOWED	: THREE (3) HOURS
INSTRUCTION	: ANSWER QUESTION 1 AND ANY OTHER TWO QUESTIONS OF YOUR CHOICE.
SPECIAL CONDITION	: SCIENTIFIC CALCULATOR ARE NEEDED
MARKS ALLOCATED	: 100 MARKS

THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION TO DO SO HAS BEEN GRANTED BY THE INVIGILATOR

QUESTION 1

A test was administered to a Form 3 Integrated Science class, the learners' responses to item number one which was a multiple choice item is tabulated as follows:

Options	**A**	**B**	**C***	**D**	**E**
Upper group	1	1	9	0	2
Lower group	3	5	4	0	1

Answer the following question using the information on the table to answer the following questions:

a) Showing your calculations, how many students wrote the test? (5 marks)
b) Compute item difficulty of the item and comment. (5 marks)
c) Compute item discrimination of the item and comment. (5 marks)
d) Discuss the effectiveness of the four (4) destructors: A, B, D and E, make a decision about each destructor. (20 marks)
e) On the bases of (b), (c) and (d) state your overall assessment of the item (5 marks)

Total marks [40 marks]

QUESTION 2

Write brief notes about any **three (3)** of the following statistical concepts, use classroom examples to support your argument where applicable.

a) The normal curve
b) Standard deviation
c) Mean
d) Inclusive Range

10 x 3 = 30 marks
Total marks [30 marks]

QUESTION 3

Reflect on the concept of usability of a measurement instrument, using relevant classroom examples to support your arguments, discuss any **five (5)** key features that would render classroom measuring instrument usable.

6 x 5 = 30 marks
Total marks [30 marks]

QUESTION 4

Use classroom examples where applicable to discuss any **five (5)** factors that affect the reliability of a measurement instrument (test).

6 x 5 = 30 marks
Total marks [30 marks]