University of Swaziland

Faculty of Education

Department of Educational Foundation

Final Examination Paper 2012/2013

November 2013

Title of paper: Measurement and Testing

Course Code: EDF321/PGC F/T

Time allowed: Three (3) hours

Notes and Instructions: The total for the paper is 100% .

This paper is not to be opened until permission has been granted by the invigilator.

Answer all questions

Question one

(a) What is the difference between formative and summative assessment? (1 marks)

(b) Explain how these two processes are helpful in improving practice in schools/organisations-support your answer with examples? (2 marks)

(c) Black and William (1998b) noted that formative assessment practices will not materialise unless the following conditions are met: assessment practices are designed so that they align directly with the content standard to be learned; tasks or items match what has been or will be taught. Critically discuss this statement. (7 marks)

Question Two

(a)What is item analysis? (3 marks)

(b) Explain the importance of item analysis in improving practice in schools or in educational organisations such as the Examination Council? (4 marks)

(c) What is the difference between difficult level or index and discrimination index? (3 marks)

Question Three

(a) Calculate the difficult index or level of these two following items/questions and interpret the results. (10 marks)

Distractors	A	B	C	D
Questions 1	O	4	23 *	3
Question 2	11 *	14	3	2

Key:*correct answer!

(b) Calculate the discrimination index of these two items and interpret the results (10 marks)

Key: 1 correct answer
     0 wrong answer

Students	Scores	Item (1)	Item (2)
Thoko	90	1	0
Simon	90	1	0
John	80	0	0
Charles	80	1	0
Sonia	70	1	0
Robert	60	1	0
Cliford	60	1	0
Khelina	50	1	1
Justice	50	1	1
Tom	40	0	1

Question Four

(a) Calculate the mean, variance and standard deviation from this distribution of the test scores of ten individuals (10, 1, 3, 9, 2,5,7,6,9,8), then interpret the results. Use the formula below.

Variance = Total sum of the deviation score squared divided by N

Standard deviation = Total sum of x squared divided by N, then square root. (10 Marks)

End of the paper