UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER

PROGRAMME:  DIPLOMA IN AGRICULTURAL EDUCATION II
DIPLOMA IN HOME ECONOMICS EDUCATION II

COURSE CODE:  AEE 201

TITLE OF PAPER:  EDUCATIONAL MEASUREMENT AND TESTING

TIME ALLOWED:  TWO (2) HOURS

INSTRUCTION:  ANSWER ALL FOUR (4) QUESTIONS

DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED
BY THE CHIEF INVIGILATOR

## QUESTION 1

Discuss, with examples, five differences between objective and essay tests.

**[25 marks]**

## QUESTION 2

The following set of marks was recorded for a test:
44, 58, 66, 60, 74, 78, 82, 78, 48, 44, 48, 50, 72, 78, 52, 66, 60, 57, 76, 76, 56, 42, 52, 64, 66, 58, 66, 64, 52.

Based on the set of marks:

| | | |
|---|---|---|
| (a) | Calculate the mean score | [2 marks] |
| (b) | Determine the modal score | [1 marks] |
| (c) | Determine the median score | [2 marks] |
| (d) | Calculate the range | [1 marks] |
| (e) | Calculate the deviation of each score from the mean | [2 marks] |
| (f) | Determine the variance of the test | [3 marks] |
| (g) | Calculate the standard deviation of the test | [5 marks] |
| (h) | List the set of marks that are 1 standard deviations below the mean | [3 marks] |
| (i) | List the set of mark that are 1 standard deviation above the mean | [3 marks] |
| (j) | Using the "Mean and Standard Deviation" principle, distribute the Marks into A's; B's; C's; D's; E's; and F's. | [3 marks] |

**[Total: 25 marks]**

## QUESTION 3

Define and/or explain, with examples, each of the following terms as used in measurement and testing:
   (a)   Scales of measurement
   (b)   Norm-referenced tests
   (c)   Index of discriminating power
   (d)   Evaluation
   (e)   Cronbach's alpha

**[25 marks]**

## QUESTION 4

Discuss, in details, with examples, how you will ensure that a test is good.

**[25 marks]**