

MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University) University Examinations 2015/2016

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL STUDIES

FIRST SEMESTER EXAMINATION FOR DIPLOMA IN AGRICULTURAL EDUCATION

EAG 0201: MEASUREMENT AND EVALUATION IN AGRICULTURAL EDUCATION AND EXTENSION

Date: 27/4/2016

Time: 11:00 – 1:00 PM

INSTRUCTIONS

This paper consists of FIVE questions Answer question one and other two questions in this paper

SECTION A: 30 MARKS

QUESTION ONE

iii)

- a) State the meaning of the following terms as used in measurements and evaluation
 - i) Assessment
 - ii) Measurement
 - iii) Test
 - iv) Examination
 - v) Evaluation
- b) Giving relevant examples , describe the following scales of measurements
 - i) nominal scale,
 - ii) ordinal scale and
 - ratio scale

(6 marks)

(5 marks)

c)	Differentiate between reliability and Validity of a test	(4 marks)	
d)	List two types of validity that a teacher has to consider when setting a test	(2 marks)	
e)	Mention two ways of measuring reliability of a test	(2 marks)	
f)	Define a marking scheme and state its importance (3 marks)		
g)	State four reasons why a marking scheme should be prepared at the same time when		
	setting the test.	(4 marks)	
h)	State two limitations of each of the following types of tests	o limitations of each of the following types of tests	
	i) True/ false tests		
	ii) Short answer test	(4 marks)	

QUESTION TWO

- a) Describe **FIVE** guidelines for constructing a multiple choice test (10 marks)
- b) An agriculture teacher in Migwani secondary school gave an 80 items MULTIPLE CHOICE TEST with FOUR options for each item. Simon, a student guessed all 80 items and scored 20 items correct. T he teacher decided to do a correction for guesswork during scoring. Calculate John's corrected score and show your working (5 marks)
 c) Discuss five reasons why students cheat in examinations (5 marks)

QUESTION THREE

a) Define a test table of specification (2 marks)
b) Describe the major categories of educational objectives according to Benjamin Bloom, (1956) (6 marks)
c) Choose a topic of your choice in either Biology or Agriculture with four instructional objectives and plan for its test using a test table of specification. (12 marks)

QUESTION THREE

a) Explain disadvantages of essay items (6 marks)
b) Construct one essay question from a topic in either Biology or Agriculture and prepare a marking scheme for it (14 marks)

QUESTION FIVE

- a) Find the median and the mode of the following scores 100, 90,80,80,70, 70, 70, 70, 60, 60, 60, 50, 50, 40, 40, 30, 30, 20, 10. (3 marks)
- b) In a certain school in west Pokot County, students scored marks as shown in the frequency distribution table below

Score (X)	Frequency (no. of students who scored X)
0	0
1	1
2	2
3	4
4	8
5	9
6	10
7	9
8	4
9	2
10	1

i) Calculate the mean score of the students in the class (9 marks)ii) Using a histogram illustrate the distribution of scores (8 marks)