COPIES 15

KISII UNIVERSITY UNIVERSITY EXAMINATIONS FIRST YEAR EXAMINATION FOR THE AWARD OF THE CERTIFICATE IN ANIMAL SCIENCE AND TECHNOLOGY

BOTA 00211: BOTANY AND ZOOLOGY

STREAM: Y1S1	TIME: 2HOURS
DAY:	DATE:

INSTRUCTIONS

- 1. Do not write anything on this question paper.
- 2. Answer ALL questions in section A [COMPULSORY] and any other TWO questions of your choice from section B.

SECTION A [COMPULSORY] [30 MARKS]

QUESTION 1

Name the functions of the following

i.	Bud	(2marks)
ii.	Stem	(2marks)
iii.	Root	(2marks)
iv.	Leaf	(2marks)
٧.	Fruit	(2marks)

QUESTION 2

Briefly describe the following terms.

i. Nucleus	(1marks)
ii. cell membrane	(1marks)
iii. Cytology	(1marks)
iv. Cell division	(1marks)
v. Golgi bodies	(1marks)
vi. Mitochondria	(1 mark)
vii. RNA	(1 mark)

viii. DNA		(1 mark)	
ix. Taxonomy		(1 mark)	
x. Conserv	ration	(1 mark)	
QUESTION 3			
(a)Differentiate the following .			
i. ii.	Prokaryotic cell and eukaryotic cell.	(2marks)	
iii.	Algae and plants Asexual and sexual reproduction	(2marks) (2marks)	
iv.	RNA and DNA	(2marks)	
(b)Explain the importance of zoos		(6marks)	

SECTION B [40 MARKS]

Answer any **two** questions from this section.

Question 4

(i) Explain beneficial bacteria.	(10marks)	
(ii)Describe amoeba under the following using diagrams where possible.		
a. Feedingb. Reproductionc. Locomotion		
Question 5		
(a)Briefly explain the following stems of specific plant types.		
i. Tuber	(2marks)	
ii. Rhizome	(2marks)	
iii. Bulb	(2marks)	
iv. Grapevines	(2marks)	
v. Bryophytes	(2marks)	

(b) Explain the structure of the stem in relation to its function.	(5marks)
(c) Differentiate between mitosis and meiosis giving examples appropriately.	(5 marks)
Question 6	
(i)With the help of a well labeled diagram draw the plant cell.	(10marks)
(ii)Briefly describe the importance of botany and zoology.	(10marks)