BIOL 00100

CHUKA



UNIVERSITY

TIME: 2 HOURS

11.30 A.M - 1.30 P.M

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH AND PRODUCTION

BIOL 00100: BOTANY AND ZOOLOGY

STREAMS: CERT, ANHE Y1S1

DAY/DATE:MONDAY 4/12/2017

INSTRUCTIONS:

- Answer all questions in section A and any two questions in section B
- Do not write anything on the question paper
- Use illustrations where appropriate to enhance your answers

SECTION A (30MARKS)

- 1. Explain what each of the following branches of botany or zoology is involved in. [5marks]
 - (i) Morphology
 - (ii) Pharmacognosy
 - (iii) Pathology
 - (iv) Zoography
 - (v) Ornithology
- 2. (a) Define the term "species" as used in the broader concept. [2marks]

(b) Give examples, distinguish between vital and mechanical functions performed by plants. [3marks]

3. (a) Giving any three taxa used in the classification of organisms. [3marks]

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	(b) Give two differences between prokaryotic cells and eukaryotic cells.	[2marks]
4.	(a) Describe, with the aid of sketches, two types of inflorescences.	[4marks]
	(b) Name:	
	(i) Two organs of a plant.	[1mark]
	(ii) Two organ systems of an animal.	[1mark]
	(c) Write correctly the following scientific names in binomial nomenclature:	
	(i) PANTHELA LEO.	[1mark]
	(ii) lantana camara.	[1mark]
	(d) Give the scientific name of the cow or ox.	[1mark]
5.	(a) Explain the difference between the cells produced through mitosis and through meiosis with regard to sets of chromosomes.	those produced [2marks]
	(b) Describe briefly the role played by the seed coat.	[4marks]
SECTION B(20MARKS)		
6.	Write an essay on the importance of botany.	[20marks]
7.	Discuss root modification in plants .	[20marks]
8.	Expound on the structure of the animal cell.	[20marks]