CHUKA



UNIVERSITY

RESIT/ SPECIAL EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH AND PRODUCITON

BIOL 00100: BOTANY AND ZOOLOGY

STREAMS: CERT (ANHE) YISI TIME: 2 HOURS

DAY/DATE: THURSDAY 26/07/2018 11.30 AM – 1.30 PM

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 (50 MARKS)

1.	Expla	ain the involvement of any three branches of botany and three of zoolo				
2.	(a)	Defin	ne the term "species"	[2 marks]		
	(b)	Give	two distinguishing characteristics of eukaryotic cells.	[2 marks]		
	(c)	State	[2 marks]			
3.	(a)	Explain the meaning of binomial nomenclature.		[2 marks]		
	(b)	Write correctly the following scientific names in binomial nomenclature:				
		(i)	Coffea ARABICA	[2 marks]		
		(ii)	MUSCA Domestica	[2 marks]		
		(iii)	Felis concolor	[2 marks]		

(c) Give the scientific names of the following organisms:

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		(i) (ii)	Domestic dog Mango tree	[2 marks] [2 marks]		
4.	With the aid of sketches, describe the following:					
	(i) (ii)		ne inflorescence as roots	[3 marks] [3 marks]		
5.	(a)	Explai	n the meaning of homeostasis	[2 marks]		
	(b)	Explai	n an example of homeostasis in the human body	[4 marks]		
6.	(a)	Explai	n the events that take place during cytokinesis.	[2 marks]		
	(b)	Explai	n the most important similarity between cyanobacteri and p	lants. [2 marks]		
7.	(a)	Name	three types of cells found in animals.	[3 marks]		
	(b)	Disting	guish between an organ and an organ system	[4 marks]		
8.	-	lain how daughter cells by mitosis differ from those by meiosis with respect to sets omosomes. [3 marks]				
SECT	ION B	(20 MA	ARKS)			
9.	Write	Vrite an essay on the importance of the study of zoology.				
10.	Describe the general structure of an animal cell with reference to the functions of its parts. [20 marks]					