BIOC 100

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN BIOCHEMISTRY

BIOC 100: INTRODUCTION TO BIIOCHEMISTRY AND BIODIVERSITY

STREAMS: BSC (BIOC)	TIME: 2 HOURS
DAY/DATE: THURSDAY 17/12/2020	11.30 AM – 1.30 PM
INSTRUCTIONS:	

- Answer question ONE and any other TWO questions
- Do not write on the question paper

QUESTION ONE

a)	Stateany five applications of Biochemistry.	(5 marks)
b)	Give the different types of chemical reactions encountered in a living co	ell. (5 marks)
c)	(i) Distinguish between extirpation and extinction.	4 marks)
	(ii)State the current single greatest threat to biodiversity.	(1 mark)
d)	(i)State the lineage to which the flatworms belongs. (1 mark)
	(ii) Give any 4 features of flatworms. (4)	4 marks)
e)	State functions of proteins in living organisms.	(5marks)
f)	(i). Explain the importance of using scientific names while naming living things. (3 marks)	
	(ii). State the type of bond which link monosaccharides to form polysaccharides. (1 mark)	
	(iii) State the molecule which is released during the formation of the bo	ond in f(ii). (1 mark)

QUESTION TWO

a)	Explain the three levels of biological diversity.	(6 marks)		
b)	Describe the characteristic features of living organisms.	(10 marks)		
c)	Using examples, describe the 'elaborate disguises' used by insects to predators.	evade their (4 marks)		
QUESTION THREE				
a)	Describe the biological functions of carbohydrates.	(7 marks)		
b)	Briefly describe the evolutionary history of the animal kingdom.	(10 marks)		
c)	Give three components of a nucleotide.	(3 marks)		
QUESTION FOUR				
a)	Explain the major causes of loss of biodiversity.	(10 marks)		
b)	Discuss the different adaptations of land plants.	(10 marks)		