

AMREF INTERNATIONAL UNIVERSITY SCHOOL OF PUBLIC HEALTH DEPARTMENT OF COMMUNITY HEALTH BACHELOR OF SCIENCE IN COMMUNITY HEALTH END OF SEMESTER EXAMINATION SEPTEMBER -DECEMBER 2022

CH	IP 125:	Biochemistry						
Da	te:	7 th December 2022						
Time: 2 hours		'S	Start:	11.000 AM	Stop: 1.00 PM			
INSTRUCTIONS								
1.	1. This exam is marked out of 70 marks							
2.	2. This Examination comprises TWO Sections							
Section A: Compulsory Question (30 Marks)								
Section B: Long Answer Questions (40 Marks)								
3.	. All questions in Section A are compulsory and Answer any TWO questions in Section B							
4.	4. No movement is allowed during the examination							
5.	5. Any aspect of cheating detected during and or after the exam administration will lead to the							

6. Do not write on the question paper

nullification of your exam.

SECTION A: SHORT ANSWER QUESTIONS. ANSWER ALL QUESTIONS

(30 Marks)

1.	Describe the structure and function of any three cellular components.	(6 Marks)		
2.	Describe the three (3) main physical properties of fatty acids.	(6 Marks)		
3.	Highlight any three functions of nucleotides	(6 Marks)		
4.	Distinguish between sucrose and lactose from the structural standpoint)			
		(3 Marks)		
5.	Outline any three functions of vitamin D	(3 Marks		
6.	Using examples give examples of three biomolecules, their monomers as found in the cell.	nd polymers (6 Marks)		
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SECTION B: LONG ANSWER QUESTIONS. ANSWER ANY TWO QUESTIONS

(40 Marks)

- 7. Explain the following terms
 - a.

i.	An enzyme activat	or		(3 Marks)			
ii.	An enzyme inhibit	or		(3 Marks)			
iii.	Allosteric effector			(4 Marks)			
ith appropriate examples explain the differences between the primary,							

- b. With appropriate examples explain the differences between the primary, secondary, tertiary and quaternary structures of proteins (10 Marks)
- 8. Describe five various ways in which enzyme activity may be affected in the living cells

(20 Marks).

9. Describe five major functions of hormones in the body. Use an example in each case (20 Marks).