



**AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF COMMUNITY HEALTH
BACHELOR OF SCIENCE IN COMMUNITY HEALTH PRACTICE
END OF MAY-AUGUST 2024 SEMESTER EXAMINATIONS**

UNIT CODE: CHP 125

UNIT NAME: BIOCHEMISTRY

DATE: WEDNESDAY 7TH AUGUST 2024

TIME: TWO HOURS

START: 4.30 PM **STOP:** 6.30PM

INSTRUCTIONS

1. This exam is marked out of 70 marks
2. This Examination comprises TWO Sections
Section A: Compulsory Question (30 Marks)
Section B: Long Answer Questions (40 Marks)
3. This online exam shall take TWO Hours
4. All questions in Section A are compulsory and Answer any TWO questions in Section B

SECTION A: COMPULSORY (30 Marks)

1. Outline the different structural levels of proteins [4 Marks]
2. Highlight any 4 factors that affect the rate of enzyme activity in the body [4 Marks]
3. State 4 functions of minerals in the body [4 Marks]
4. Name four component of an amino acid molecule [4 Marks]
5. Highlight the state of lactose intolerance. [4 Marks]
6. Highlight any four functions of nucleic acids in the body [4 Marks]
7. Explain any three factors that influence the rate of enzyme catalyzed reactions [6 Marks]

SECTION B: ANSWER ANY TWO (2) QUESTIONS (40 Marks)

8.
 - a. Discuss any three processes by which substances move in and out of the cell [12 Marks]
 - b. Explain any four roles of water in the body of a mammal [8 Marks]
9.
 - a. Discuss the significance of biochemistry in health [12 Marks]
 - b. Discuss 4 classification of lipids [8 Marks]
10. Describe the following structural organization of proteins: [20 Marks]
 - a. The primary structure.
 - b. The secondary structure.
 - c. The tertiary structure
 - d. Quaternary structure.