



**KISII UNIVERSITY  
SCHOOL OF PURE AND APPLIED SCIENCES  
BACHELORS EXAMINATION  
JUNE-SEPT 2022 Examinations**

Location: Main campus,

No of students:

**BIOC 204: INTRODUCTION TO BIOCHEMISTRY**

**TIME: 2 HOURS**

**SECTION A: ANSWER ALL QUESTIONS (40 MARKS)**

- 1) Define the following terms: [5 marks]
  - a) Coenzyme
  - b) Metabolism
  - c) Oxidoreductase
  - d) Cellulose
  - e) Glycolysis
- 2) Enumerate properties and functions of amino acids. [3 marks]
- 3) Briefly discuss the uses of biochemistry [3 marks]
- 4) What are lipids? Briefly describe their structure and functions [3 marks]
- 5) Give a brief account on protein classification and their function [5 marks]
- 6) Define enzyme and discuss the factors affecting enzyme action [5marks]
- 7) Briefly explain how glucose is utilized in our body [8 marks]
- 8) With the help of a diagram, explain the process of glycolysis. [8 marks]

**SECTION B: ANSWER ANY TWO QUESTIONS (30 MARKS)**

- 9) Elaborately discuss Krebs cycle [15 marks]
- 10) Give an elaborate account on amino acid metabolism. [15 marks]
- 11) Explain in detail the glucose catabolism. [15 marks]