



Africa University

College of Health Agriculture and Natural Science

MAIN PAPER

COURSE: AGRICULTURAL BIOCHEMISTRY

CODE: NAAS211

DATE: APRIL 2024

LECTURER: Dr. S. CHAKEREDZA

DURATION: THREE (3) HOURS

INSTRUCTIONS TO CANDIDATES

Answer All Questions from Section A
And Answer Three Questions from Section B

Section A Answer ALL questions.

QUESTIONS

1. Draw a simplified diagram of an animal cell. Label the following: cytoplasm, smooth endoplasmic reticulum, rough endoplasmic reticulum, mitochondria [10]
2. Give the scientific definition of Biochemistry mean [5]
3. What are the nutrients a cell needs to maintain itself and = be productive [5]
4. What are the major differences between an animal and plant cells [10]
5. In enzyme function inhibition explain differences between reversible and irreversible inhibition [10]

Section B: Answer 3 Questions

1. How does the animal body regulate metabolism: Discuss [20]
2. In cellular metabolism list and explain the key pathways giving their end-products [20]
3. Define an enzyme and describe its function and also factors influencing its function [20]
4. Describe the process of photosynthesis, its importance in relation to climate change [20]
5. Discuss the general functions of proteins and give four food sources that supply proteins to animals [20]

END OF QUESTION PAPER!!!