



“Investing in Africa’s future”

**COLLEGE OF HEALTH, AGRICULTURE AND NATURAL
SCIENCES**

NAAS 211: AGRICULTURAL BIOCHEMISTRY

END OF SECOND SEMESTER FINAL EXAMINATIONS

APRIL 2022

LECTURER: DR. S. CHAKEREDZA

DURATION: 3 HOURS

INSTRUCTION

1. Answer All Questions in Section A, and
2. Answer Any three Questions from Section B

Section A (answer all, possible marks 40)

1. Draw a labelled animal cell. [5]
2. Draw a labelled plant cell. [5]
3. Compare and contrast the plant and the animal cell. [8]
4. Give the nutrients that are required for appropriate cell function. [8]
5. List the roles of individual nutrients in an animal. [8]
6. Give examples of each nutrient in question 5 above [6]

Section B (Choose any 3 questions, maximum possible marks 60)

1. Write an essay on enzyme activity and enzyme inhibition. [20]
2. Describe photosynthesis, its role and importance. [20]
3. Discuss and show how glyceraldehyde is central to metabolic pathways. [20]
4. ATP is central to metabolism in living organisms. Show the steps in glycolysis where it is formed. [20]
5. Describe and show in glycolysis the stages where ATP is used and where it is produced. [20]

END OF EXAMINATION PAPER