

P530/2
BIOLOGY
 Paper 2
SEPTEMBER, 2023
 2½ Hours



ST. JULIAN HIGH SCHOOL SEETA CAMPUS
Uganda Advanced Certificate of Education
BEGINNING OF TERM III EXAMINATIONS 2023

INSTRUCTIONS

- ✓ *Answer only 4 questions in this paper.*
- ✓ *Answers should be written to provided booklet/answer sheets.*
- ✓ *Ensure good handwriting is used and no crowding of answers*
- ✓ *All questions carry equal marks.*
- ✓ *Begin each number on a new page.*

For Examiner's Use only.

SECTION	MARKS
SECTION A	
SECTION B	
TOTAL	
GRADE	
TR'S COMMENT	

1. (a) Describe the structure of DNA molecule.
(b) Compare DNA and RNA
2. (a) What is meant by term ecosystem
(b) Describe the energy flow in an ecosystem.
(c) Explain two types of competitions in organisms within an ecosystem.
3. (a) Briefly explain 4 ways in which substances move in and out of the cell
(b) How is osmosis significant to living organisms?
(c) Mention two evidences to show that active transport occurs with the need of energy.
4. (a) Describe the nervous and hormonal control of digestion of food in the alimentary canal
(b) Explain the importance of the secretions of the gastric glands.
5. (a) Distinguish between ventilation mechanisms and gaseous exchange.
(b) Describe the mechanism of gaseous exchange in protozoan like amoeba.
(c) How is a toad adapted to carry out gaseous exchange?
6. (a) Define the terms below.
 - (i) Histology
 - (ii) Tissue
 - (iii) Cell differentiation (04 marks)
- (b) Give an outline of the simple tissues in animals (02 marks)
- (c) What is the importance of the parenchyma cells in plants? (07 marks)

END

The possibility of excelling in Biology is determined by how much you practice it