P530/2
BIOLOGY (THEORY)
PAPER 2
AUGUST 2023
2 ½ HOURS

ASSHU ANKOLE JOINT MOCK EXAMINATIONS 2023

Uganda Advanced Certificate of Education

BIOLOGY

PAPER 2

2HOURS 30 MINUTES

INSTRUCTIONS;

- ✓ Section A consists of only one Question and it is compulsory.
- ✓ Section B consists of 5 Question. Attempt only THREE Questions from this Section
- ✓ Candidates are advised to read each Question carefully and organize their answers and then present them precisely and logically using well labeled drawings where necessary

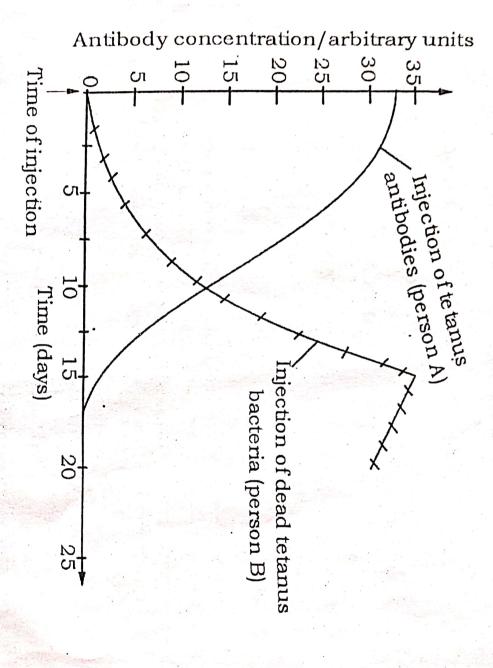
FOR EXAMINERS' USE ONLY

QUESTION ATTEMPTED	MARKS
And the Art and th	A A a sale
	10.4
let a made in the misdiffer	comparation of the equation of miles
A ceta sei	Ano
ablaurika Hwa Tama Marana wa Di na isa M	a soverest year as say! II Alia
	To the state of th
TOTAL	A Windress of Syrice (1971)



SECTION A (40 MARKS)

- infectious diseases Vaccination programmes for children have considerably reduced deaths from
- and passive immunity; The graph below shows the concentration of tetanus antibodies over time with active



Describe the changes in antibody concentration with time for the two persons

<u>.</u> Person A

(6marks)

 Ξ Person B

- (6marks)
- a Explain the changes in the concentration of the antibodies with time for each person.
- (9marks)

Person A

<u>.</u>; Person B

- (9marks)
- **b** Identify the type of immunity received by each person. Give reasons for your answer in each case. (4mks)
- C measles have not. Explain why some diseases have been eradicated by immunization while others like (6mks)

SECTION B (60 MARKS)

heir success.	Viruses and bacteria are the simplest forms for biological systems. Discuss their success.
(6marks)	b) How is the placenta adapted for its functions?
(14marks)	a) Describe the changes that occur in foetal circulation at birth.
(4marks)	b) How can clear-cutting a forest damage water quality of a nearby lake?
. (16marks)	a) Describe the factors that determine the distribution of organisms in nature. (16marks)
(8marks)	b) How is the unidirectionality transmission of an impulse maintained?
(12marks)	a) Compare parasympathetic and sympathetic nervous systems.
(8marks)	b) Explain how cells deal with the pyruvate in the absence of oxygen.
(12 marks)	a) Describe the steps that lead to pyruvate formation in cells.

(20marks)