P530/2 BIOLOGY (THEORY) PAPER 2 AUGUST 2023 2 1/4 HOURS

ASSHU ANKOLE JOINT MOCK EXAMINATIONS 2023

Uganda Advanced Certificate of Education

BIOLOGY

PAPER 2

2HOURS 30 MINUTES

INSTRUCTIONS;

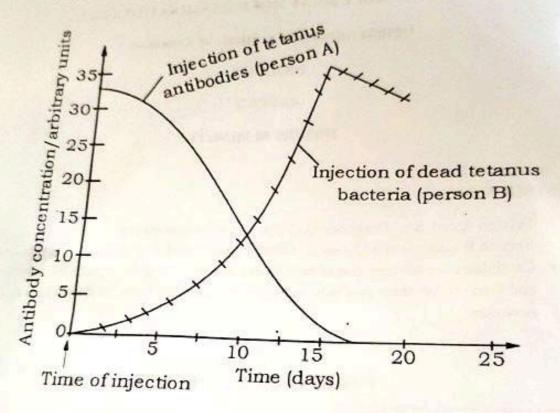
- Section A consists of only one Question and it is compulsory.
- ✓ Section B consists of 5 Question. Attempt only THREE Questions from this Section
- Candidates are advised to read each Question carefully and organize their answers and then present them precisely and logically using well labeled drawings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

FOR EXAMINERS' USE ONLY

QUESTION ATTEMPTED	MARKS
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SECTION A (40 MARKS)

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



Describe the changes in antibody concentration with time for the two persons. i)

- ii) Person B

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

- (9marks)
- b) Identify the type of immunity received by each person. Give reasons for your answer
- c) Explain why some diseases have been eradicated by immunization while others like (4mks)

(6mks)

SECTION B (60 MARKS)

2. a) Describe the steps that lead to pyruvate formation in cells.	
b) Explain how cells deal with the pyruvate in the absence of oxy	(12 marks)
3. a) Compare parasympathetic and sympathetic nervous systems.	gen. (8marks)
b) How is the wilding it	(12marks)
b) How is the unidirectionality transmission of an impulse maint	ained? (8marks)
4. a) Describe the factors that determine the distribution of organism	ns in nature (16
b) How can clear-cutting a forest damage water quality of a nearly	
5. a) Describe the changes that occur in foetal circulation at birth.	
b) How is the placenta adapted for its functions?	(14marks)
6. Viruses and bacteria are the simplest f	(6marks)
6. Viruses and bacteria are the simplest forms for biological system	s. Discuss their success.
	(20marks)