Candidate's Name	••••••
Signature:	House

P530/1
S6 BIOLOGY
(Theory)
Paper 1
27th March, 2024
1 hour



KING'S COLLEGE, BUDO

Uganda Advanced Certificate of Education S6 BIOLOGY P530/1 TEST 3

(THEORY)
1 hour

INSTRUCTIONS

This paper is made up of *three* questions

Attempt all questions in the spaces provided.

FOR EXAMINER'S USE ONLY

Question	Marks scored	Out of
1		10
2		10
3		10
Total		30

(a) What is meant by enzyme denaturation ?	(3 marks)
(b) The figure below shows the mechanism of the works	ing of an enzyme.
Substrate	Products
Enzyme Enzyme	
With reference to the figure above, explain the;	
(i) specificity of an enzyme.	(03 marks)
(i) mechanism of enzyme action .	(04 marks)

2.	(a) (i) Distinguish between ventilation and gaseous exchange .	(02 marks)			
		•••••			
		•••••			
	(ii) With reference to gaseous exchange , state four ecological advantages of				
	terrestrial organisms over aquatic organisms.	(04 marks)			
		•••••			
(b) Explain how the following increase the efficiency of the tr		heal system?			
	(i) rings of chitin around the trachea.	(02 marks)			
		• • • • • • • • • • • • • • • • • • • •			
	(ii) hairs around the spiracles.	(02 marks)			
		•••••			
		•••••			

3.	(a) What is;	
	(i) Action spectrum.	(02 marks)
	(ii) Photoperiodism .	(02 mark)
	•	,
	(b) Briefly relate action spectrum to the following	
	(i) flowering.	(03 marks)
	(ii) photosynthesis.	(03 marks)

END