Signature:	House
Candidate's Name	

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 working	ng of an enzyme.
Substrate	Products
Active site 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 ac	dvantages of
	terrestrial organisms over aquatic organisms.	(04 marks)
		• • • • • • • • • • • • • • • • • • • •
		•••••
	(b) Explain how the following increase the efficiency of the trac	cheal system?
	(i) rings of chitin around the trachea.	(02 marks)
		• • • • • • • • • • • • • • • • • • • •
	(ii) hairs around the spiracles.	(02 marks)
		• • • • • • • • • • • • • • • • • • • •

3.	. (a) What is;				
	(i) Actio	on spectrum.	(02 marks)	
	•••••				
	•••••	• • • • • • • • • • • •			
	(ii) Phot	operiodism.	(02 mark)	
	•••••				
	(b) Br	iefly rela	te action spectrum to the follow	ving	
	(i) floweri	ng.	(03 marks)	
	(ii) photos	ynthesis.	(03 marks)	
	•••••				
	•••••	• • • • • • • • • •	•••••	•••••	
	•••••	• • • • • • • • • •			