#### NALUBAALE S.S NANKOMA

## **END OF YEAR EXAMINATIONS**

## **S.5 BIOLOGY PAPER 3**

#### P530/3

Time: 2 hours 30 minutes

### **Instructions**:

Answer all questions.

You are provided with specimen T which is freshly killed. (35 marks) (a). Identify		
(i). kingdom	(1 mark)	
Reasons.	(2 marks )	
(ii). Phylum	(1 mark)	
Reasons	(2 marks)	
(b)(i). Observe the head of spec	cimen T and briefly describe the structures responsible	
for sensitivity.	(3 marks)	
(ii). Pin the specimen ventral s	ide upper most . observe the limbs of specimen T . between the fore and hind limbs. (4 marks	

Hind limb	Fore limb

(iii). Draw and label the right hind limb.

(3 marks)

(d)(i). Open the structures in s	he abdominal cavity of specimen T . situ.	Draw and label the <b>visceral</b> (15 marks)
(!) O !! .		
(ii). Outline the left side.	he organs and structures in; (4 marks)	

Iodine test  B Benedict's test  A  B			
You are provided with solutions A and B and substance X . Carry out tests to idea od substances in A and B and the active substance in X . (15 marks )  Tests  A  Iodine test  B  Benedict's test  B  Biuret test  A  B  Biuret test  B  B  B  B  B  B  B  B  B  B  B  B  B	Right side.		
ood substances in A and B and the active substance in X . (15 marks )  Observations  Deductions  Tests  A  Iodine test  Benedict's test  B  Benedict's test  B  Biuret test  A		• • • • • • • • • • • • • • • • • • • •	
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Tests A Iodine test B Benedict's test B Benedict's test B Biuret test A B Biuret test B B	You are provided with	solutions A and B and subs	tance X. Carry out tests to ide
Tests Iodine test  B Benedict's test B Benedict's test B Biuret test A B Biuret test B	ood substances in A a		ce in X . (15 marks)
Iodine test  B  Benedict's test  B  Benedict's test  A  Biuret test  A		Observations	Deductions
Iodine test  B  Benedict's test  B  Benedict's test  B  Biuret test  A	Tests		
Benedict's test  B Benedict's test  B Benedict's test  B Biuret test  A	<b>*</b>	A	
Benedict's test  Benedict's test  B Biuret test  A	Iodine test		
Benedict's test  Benedict's test  B Biuret test  A			
Benedict's test  Benedict's test  B Biuret test  A			
Benedict's test  Benedict's test  B Biuret test  A			
Benedict's test  Benedict's test  B Biuret test  A	Iodine test	В	
Benedict's test  Biuret test  A  Biuret test			
Benedict's test  Biuret test  A  Biuret test			
Benedict's test  Biuret test  A  Biuret test			
Benedict's test  Biuret test  A  Biuret test			
Benedict's test  Biuret test  A  Biuret test	D 11 1 1 1		
Benedict's test  Biuret test  A  B	Benedict's test	A	
Benedict's test  Biuret test  A  B			
Benedict's test  Biuret test  A  B			
Benedict's test  Biuret test  A  B			
Benedict's test  Biuret test  A  B			
Biuret test A  B		В	
В	Benedict's test		
В			
В			
В			
В	Riuret test	A	
	Dianet test	11	
		В	

(6 marks)		
(b). Identify food substances	in (2 n	narks)
A		
B		
_		
(C). Get 4 test tubes and add		
Test tube 1 - $1 \text{ cm}^3 \text{ of B} +$	1cm <sup>3</sup> of X.	
Test tube 2- $1 \text{cm}^3 \text{ of B} +$	$1 \text{cm}^3 \text{ of } X + 1 \text{cm}^3 \text{ of NaOH}$	I.
Test tube 3- $1 \text{cm}^3 \text{ of A} + 1 \text{cm}^3 \text{ of A}$	$+ 1 \text{cm}^3 \text{ of } X$ .	
Test tube 4- $1 \text{cm}^3 \text{ of A} + 1 \text{cm}^3 \text{ of A}$	$+ 1 \text{cm}^3 \text{ of } X + 1 \text{cm}^3 \text{ of NaOl}$	Н.
Incubate the 4 test tubes in wa	arm water for 20 minutes be	tween 35-40°C.
Then carry out the following	tests.	
Carry out Iodine and Benedic	et's tests.	

Tests	observation	Deduction
Iodine test	A	
Iodine test	В	
Benedict's test	A	
Benedict's test	В	

(3 marks)			
(ii). State the role of Acti		(0.5 mark)	
(iii). Identify substance X	ζ	(0.5 mark)	
(d)(i). Outline the proper		(2 marks)	
, ,	affect the rate of action of	,	marks)

# END MERRY CHRISTMASS AND A HAPPY NEW YEAR 2023.