## S.3 BIOLOGY ASSESSMENT TEST

TIME: 90 MINUTES TOPIC: LOCOMOTION

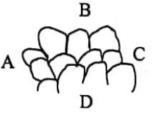
INSTRUCTIONS: Attempt all questions

## **SECTION A**

**1.** Figure 1 below represents a vertebral bone?

	X W	The part labeled X is mainly occupied; A. Cartilage B. Spinal cords C. Blood vessels D. Spinal nerve	
2.	Which of the following organisms relies on a h	nydrostatic skeleton?	
	A. Grass hopper B. Earth worm	C. Crab D. Millipede	
<b>3.</b>	Rolling and Yawing movements of fish are res	pectively controlled by the;	
	A. Pectoral and tail fins	C. Dorsal and pelvic fins	
	B. Tail and pelvic fin	D. Dorsal and ventral fins	
4.	A police man stretched out his arm to the right	to guide smooth flow of vehicles. To cause	this
	motion of the arm his		
	A. Biceps contracted while the triceps relax		
	B. Triceps contracted while biceps relaxed		
	C. Biceps and triceps both relaxed		
	D. Triceps and biceps both contracted.		
5.	Which of the following is not a characteristic a		
	A. Light	C. Strong flight muscle	
_	B. Hollow bones	D. Streamlined body	
6.	In which region of the mammalian vertebral co	olumn does the vertebra with vertebraterial ca	ınals
	found?		
_	A. tail region B. Abdominal	C. chest region D. Neck region	
7.	Which of the following characteristics of feather	_	
	A. Being water proof	C. Being light	
	B. Being large and broad	D. Being fluffed	
8.	Which of the following organisms uses cilia as		
•	A. Paramecium B. Amoeba	C. Euglena D. Earthworm	Щ
У.	The following are components of axial skeleton	_	
10	A. Sternum B. Vertebrae	C. Ribs D. Girdles	
10	The following events occurs during the upstrok		
	A. Pectoralis minor muscles contract	C. Pectoralis minor muscles relax	
	B. Pectoralis major muscles relax	D. Wings are pulled upward	

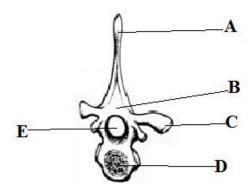
**11.** The figure below shows part of the skin and scales on a fish. The most probable position of the head to the fish is in direction:



	(A) L)			
12. The type of muscles for	and in the gut, excre	tory systems and bloc	od vessels of a mammalia	n body
is described as				
A. striped.	B. Skeletan.	C. voluntary	D. involuntary	
13. Which of the following	characteristics of fe	athers does not aid fli	ight in birds?	
A. Being water proof		C. Being larg	ge and broad	
B. Being light		D. Being fluf	fed	
<b>14.</b> Which one of the follow	ving pairs of bones f	orm a ball and socket	t joint?	
A. Humerus and Ul	na	C. Humerus ar	nd radius	
B. Femur and pelvi	S	D. Femur and	tibia	
15. What happens to insect		or muscles are relaxe	ed? The wings	
A. move downward		C. rotate freel	-	
B. move upwards		D. move in the	ree directions.	
<b>16.</b> A tendon is				
A. a tissue joining b	one to bone.	C. A tissue jo	ining muscle to muscle.	
	bone to muscle.	-	nere two bones meet.	
17. Figure 1 below is an ar	iterior view of a cert	ain vertebra		
2 1	?	The type of vertebra s	hown in figure above is	
		A. Cervical verteb	nra	
16	31	B. Lumbar verteb		
	2	C. Thoracic vertel		
		D. Sacral vertebra		
21	17	D. Saciai vercesia	•	
10 T		41 41 11		
<b>18.</b> In vertebrates the joint A. ball and socket joint				
19. Which of the following		•	iii. D. Oilding Joint.	
A. It has a prominer				
B. The neural canal	_			
C. It has a short neu	ıral spine.			
	nodified into odonto	_		
<b>20.</b> From which of the follocentra?	owing regions of the	body would you have	e vertebrae with less deve	loped
A. Thoracic	B. Lumbar	C. Cervical	D. Sacral	
21. Which one of the follow				
A. Humerus and Ul		C. Humerus ar		
B. Femur and pelvi		D. Femur and		
•				

## SECTION B

**1.** The figure 2 below shows a vertebrate in a human body.



(a) Name the par	ts labeled			(05 marks)
A	B.		C	
D	E.		•	
(b) State the fund	ction of part labeled			(03 marks)
A	••••			
C	• • • • • • • • • • • • • • • • • • • •			
E				
(c) Identify the v				(01mark)
(d) In which reg	gion of the human body	y is the vertebra found?		(01mark)
	tructure of the vertebra	a above related to its function	on?	(04 marks)
	• • • • • • • • • • • • • • • • • • • •			
(f) Name the ve	ertebra			
_	erior to one shown in t	he figure above.		(01mark)
<i>(ii)</i> ante	rior to one shown in th	e figure above.		(01mark)
•••••				
<b>2.</b> ( <i>a</i> ) State how the	e fish swims;			
(i) through	ı water			(02marks)
•••••				

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(ii) from bottom of sea to water surface	(02marks)
(b). Describe each of the following instabilities faced by fish while swim each is overcome	ming and state how (06 marks)
(i) Rolling	
(II) D1 11	
(ii) Pitching	
(iii) Yawing	•••••
3. The figure below shows a certain type of feather on a bird's body  II  IV  IVII	
(a) Name the parts labeled I to VII	(07 marks)
VII	
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<b>B.K JOSHUA 2021</b> (b) With reasons, identify the type of feather shown in the figure above.	4 (WhatsApp)
Type of feather	(01 mark) (02 marks)
	••••••
(c) In which part of the bird's body is the feather shown in the figure above found?	(01mark)
(d) State the function of the feather shown in the figure above	(02 marks)
<b>4.</b> (a) State what happens in each of the following types of flight in birds.  (i) Hovering	(06 marks)
(ii) Gliding	
(iii) Soaring	
SECTION C	
<ul><li>5. (a) How are birds adapted to flight?</li><li>(b). Describe how flapping flight is brought about in birds.</li></ul>	(07 marks) (08 marks)

## END!!!

"What men have done, man can do."

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