## S.4 BIOLOGY ASSESSMENT TEST

INSTRUCTIONS:	Attemp	t all q	uestions
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		SECT	TON A		
1.	The ability of an organism	to react to chang	es in the environme	ent is known as	
	A. Stimulus	B. Impulse	C. Locomotio	n D. Irritability	
2.	Which one of the following A. Controls water reab B. Controls basic meta C. Regulates activities	sorption in the bobolic rate in verte of other endocrir	dy. brates. e glands.		
3.	D. Controls the function The paths followed by imp (i) muscle, (ii) sensory neuron,	ulses during a ret (iii) set (iv) as	_	(v) motor neur	on.
4.	The correct order followed A. (iii), (iv); (ii); (i) B. (i); (v); (iv); (ii); (iii) Which one of the following A. Pancreas B. I	)	C. (iii); (ii); (iv) D. (ii); (iii); (iv) rowth hormone in C. Adrenal gl	); (v); (i) mammals?	
5.	Figure 1 is a simplified ref	• •	•	210011110	
	Receptor cells K				
	A. the relay neurone.	iscle fibre Fig.2	C The sen	sory neurone.	
	B. A ganglion.			tor neurone.	
6.	Which one of the following	g shows the corre	ct path followed by	y light rays to produce an	image at
7	the retina?  A. Cornea, acqueous humour, lens, pupil, vitreous humour, retina.  B. Cornea, vitreous humour, pupil, lens, aqueous humour, retina.  C. Cornea, pupil, vitreous humour, lens, aqueous humour, retina.  D. Cornea, aqueous humour, pupil, lens, vitreous humour, retina.				
7.	What is the functional unit A. Dendrite.	B. Neurone	em caned? C. Axon.	D. Synapse	
8.	Which of the following co			• •	ooks at a
	distant object?				
	Ciliary muscle	Suspensory	ligament	Shape of lens	
	A. Contracts	Becomes les	s taut	Becomes more convex	
	<b>B.</b> Contracts	Becomes tau	t	Becomes less convex	
	C. Relaxes	Becomes les	s taut	Becomes less convex	
	<b>D.</b> Relaxes	Becomes tau	t	Becomes less convex	

18. Figure 2 below shows the tongue's taste areas;

D. Regulates sugar content of the body.

Which part is responsible for the bitter taste?

A. P

B. O

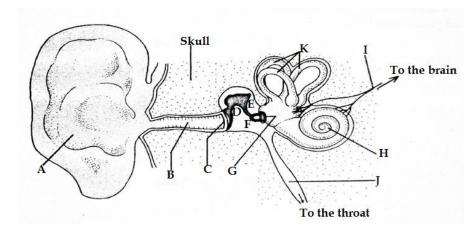
C. R

D. S

	ch one of the following is correct order of arrangement of the oss	
	A. Malleus, incus and stapes C. Malleus, stapes a	
	B. Incus, stapes and malleus D. Incus, malleus	-
	ch one of the following is true about the nervous system of a man	nmal?
A	A. Cell bodies of the sensory neurones are found in the ganglia.	
В	B. Cell bodies of the sensory neurons are formed in the grey matter	er.
C	C. Sensory neurones transmit impulses from the central nervous s	ystem to receptors.
$\Gamma$	D. Cell bodies to sensory neurones are found in the receptors.	
	SECTION B	
1. Stud	y figure 6 below and answer the questions that follow.	
	(i)	
	(ii)	
	(iii)	
	(iv)	
	$\Psi_{-}$	
	(v)	
	(vi)	
	(VI)	
	<b>g</b> p	
	(vii)	
	(viii)	
( )		(0.4
(a).	Name the parts labelled (i) to (vi) on the diagram.	(04 marks)
<b>(b)</b>	By means of an arrow show the direction of impulses propagat	ion in the diagram above.
( )		(01 mark)
(c)	(i) What type of neurone is this?	(01 mark)
(0)	(i) What type of hearone is this.	(or mark)
	(ii) What action does it induce in the body?	(01 mark)
	(ii) What action does it induce in the body:	(OI mark)
( <b>.1</b> )	What is the function of atmostrate labelled (iv)?	(01 m anh)
<i>(d)</i>	What is the function of structure labelled (iv)?	(01 mark)
<b>A</b> G. 1		
2. Stud	y the diagram below and answer the questions that follow.	
	A	
	В	
	$c \longrightarrow (V)$	
	B	
	E twinkl com	

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(a)	Name parts labeled A-F	(03marks)
	A B B E	C F
<b>(b)</b>	Describe the adjustments that would occur in part D when one i	
(c)	Explain how myopia is corrected using lenses.	(04 marks)
	•••••••••••••••••••••••••••••••••••••••	
3. The	figure below shows part of the central nervous system and reflex	arc.
	(viii) (iii) (iv) Receptor (viii)	
(a) Nam	e the labeled parts.	(04 marks)
(i)	(ii) (iii)	
(iv).	(vi) (vi).	
(vii).	(viii)	
<b>(b)</b> Drav	v arrows on the above diagram to show the direction of impulse f	low. (01 mark)
(c) Brief	ly describe how impulses are transmitted across part (vi).	(03 marks)
•••••		
/ I D a g a EII	ND MORE QUESTIONS IN TOPICAL REVISION BOOKS BY B.K JOS	H PHRHCATIONSIII

- (d) Give one example of a simple reflex action and its signature. (02 marks)
- **4.** The figure below shows the section through the human ear. Study it carefully and answer the questions that follow.



(a) (i) Name the parts labelled		(02 marks)
A	C	
В	G	
(ii) State the general name for structures D	, E and F	(01 mark)
(iii). State the function of the following stru		(02 marks)
K		
(b) Describe how the structures labelled A to I	are involved in the hearing process.	
		•••••

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SECTION C	
1. (a) With examples, what is meant by the following;	
(i) Exocrine glands	(01 ½ marks)
(ii) Endocrine glands	(01 ½ marks)
(b). Describe the roles played by the various secretions of the different endocrin	ne glands in the
human body.	(12 marks)
2. (a) State, giving two examples in each case, what is meant by the following terms	ms:
(i) Voluntary action.	<b>(02 marks)</b>
(ii) Involuntary action	(02 marks)
(b) Imagine you are sitting outside in the tree shade reading a book; you loo	k up from the
book to a distant sunlit mountain and then down to the book again. Desc	-
of events that occur in your eyes as the two actions take place.	(09 marks)

## END!!!

"What men have done, Man can do!!!!!!"@SCZ Salongo

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