

FIRST YEAR HIGHER SECONDARY IMPROVEMENT EXAMINATION JULY 2019

SUBJECT: ZOOLOGY

CODE. NO: FY 26 B

Qn No	Sub Qns	Answer Key/Value Points	Score	Total
1.		d. Absence of Air bladder	1	1
2.		Key / Taxonomic key	1	1
3.		Medulla	1	1
4.		(a) A signal sent out by CNS (b) Release of a neurotransmitter substance (c) Release of Ca^{+} into the sarcoplasm (d) Binding of Ca^{+} with troponin (e) Remove the mask of active site for binding myosin. [Any four correct sequence - full score] [First and last correct response - One score]	2	2
5	(a)	A - Serosa B - Inner circular } Muscularis Outer longitudinal } C - Submucosa D - Mucosa	1	2
	(b)	Rugae / Villi / Goblet cells / Gastric glands / Crypts of Lieberkuhn [Any one of the above give one score] Any two correct response in (a) carries one score.	1	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total
		<p>Any one correct response in (b) carry one score.</p> <p>[All <u>four</u> correct responses in (a) carries <u>full</u> score.</p> <p>Any <u>two</u> correct responses in (b) carries <u>full</u> score.]</p>		
6.		<p>Low PO_2 High PCO_2 High H^+ High temperature</p> <p>[Any two correct response - full mark]</p>	2	2
7.	(a) (b)	<p>Cardiac muscle</p> <p>Allow the cardiac muscle to contract as a single unit / Communication junction / Communication Transport of impulse</p>	1 1	2
8	(a) (b) (c) (d)	<p>True</p> <p>False - ANF decreases blood pressure</p> <p>False - Angiotensin II stimulates the adrenal cortex to release aldosterone.</p> <p>True</p>	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	2
<p>[(b) and (c) without explanation (correction) gives full score.]</p>				

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total
9.	(a) (b)	Clavicle, Scapula Acetabulum	$\frac{1}{2} + \frac{1}{2} = 1$ 1	2
10.	(a) (b) (c) (d)	Mosaic vision / vision Connect the sclerites / exoskeleton / hardened plates Sperms are stored Excretion [Any two correct responses carries full score.]	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	2
11.	(a) (b)	Flame cells Proboscis gland Flame cells - Flatworms / Platyhelminthes Any example under this phylum Proboscis gland - Any example under this phylum / Hemichordata	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	2
12.	(a)	Electrical synapse (Electric) - Electric current can flow directly from one neuron into another (Always faster Or any other relevant response) Chemical synapse - Neurotransmitters involved in chemical synapse (Or any other relevant response)	$\frac{1}{2}$ $\frac{1}{2}$	

Qn No	Sub Qns	Answer Key/Value Points	Score	Total
	(b)	Rods - Helps in dimlight vision / or any other relevant response Cones - Helps in colour vision / or any other relevant response	$\frac{1}{2}$ $\frac{1}{2}$	2
13		A - Hypothalamus B - Posterior Pituitary C - Anterior Pituitary D - Portal circulation [Any two correct responses carries full score]	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	2
14	(a) (b)	SAN \rightarrow Right atrium \rightarrow AVN \rightarrow Bundle of His \rightarrow Ventricle SA node (SAN) [Any two correct sequence in (a) carries one score]	1 1	2
15		A - Tissue / Organ / Organ system B - Bilateral C - With false coelom / Pseudocoelom D - Ctenophora E - Mollusca F - Hemichordata	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	3

[Any three correct response carries full score.]

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
18.	(a)	Thrombin	1	3
	(b)	Activate prothrombin into active thrombin / $\text{Prothrombin} \xrightarrow{\text{Thrombokinase}} \text{Thrombin}$	1	
	(c)	Calcium ions / Ca^{++}	1	

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