

ANSWER KEYFIRST YEAR HIGHER SECONDARY EXAMINATION
IMPROVEMENT 2020PART - IIISUBJECT : ZOOLOGYFY 20

30 SCORES

1 HOUR

Qn No.	Sub Qns.	Answer key / Value points	Score	Total Score
1.		Monograph / c	1	1
2.		Ornithorhynchus / b	1	1
3.		Carbonic anhydrase / c	1	1
4.		Renin / d	1	1
5.		Hypothalamus / a	1	1
6.	(a)	International code for / of Botanical Nomenclature	1	2
	(b)	International code for / of Zoological Nomenclature	1	
7.	(a)	Flame cells	$\frac{1}{2}$	2
	(b)	Nephridia	$\frac{1}{2}$	
	(c)	Malpighian tubules	$\frac{1}{2}$	
	(d)	Gills	$\frac{1}{2}$	

Qn No.	Sub Qns.	Answer key / Value points	Score	Total Score
8	A	Biceps / Any other names of skeletal muscle / muscles attached to the skeleton / leg muscle / hand muscle etc.	1/2	2
	B	Smooth muscle / Non-striated / Visceral / Involuntary / non-skeletal muscle	1/2	
	C	Wall of internal organs / Blood vessels / Stomach / Intestine	1/2	
	D	Cardiac muscle / Heart muscle	1/2	
9	(a)	A - Dense regular B - Dense irregular	1/2 1/2	2
	(b)	A - Tendon / Ligament / Tissue that connect muscle to bone or bone to bone B - Skin	1/2 1/2	
10		(i) - Absorption of some water, minerals and certain drugs (ii) - Helps in adhering waste particles together	1 1	2
11	(a)	Oxygen dissociation Curve	1/2	2
	(b)	(i) High PO_2 (ii) Low PCO_2 (iii) Lesser H^+ concentration (iv) Lower temperature (Any of the two factors give 1 1/2 score)	1 1/2	

Qn No.	Sub Qns	Answer key / Value points	Score	Total Score
15	(a) (b) (c)	Olfactory receptors Gustatory receptors Olfactory bulb (Two correct response give full score)	$\frac{1}{2}$ $\frac{1}{2}$ 1	2
16	(a) (b)	Sella turcica GH / PLR / TSH / ACTH / LH / FSH / GnRH / MSH / Oxytocin / Vasopressin. (Any 3 Hormones give $1\frac{1}{2}$ score)	$\frac{1}{2}$ $1\frac{1}{2}$	2
17	(a) (b)	Chondrichthyes / cartilaginous fishes / Elasmobranchs Any four characters of chondrichthyes give $2\frac{1}{2}$ score.	$\frac{1}{2}$ $2\frac{1}{2}$	3
18	(a) (b)	(i) Substrate binded to enzyme (ii) Enzyme change the shape (iii) Substrate breaks its chemical bond (iv) Enzyme release product OR (Explanation of the equation gets 2 score) (i) Temperature (ii) pH (iii) Concentration of substrate (Two correct response give 1 score)	2 1	3

Qn No.	Sub Ans.	Answer key / Value points	Score	Total score
19		A - Cerebrum B - Thalamus C - Hypothalamus D - Corpora quadrigemina E - Pons F - Cerebellum	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	3
20.		Auto excitation / Auto rhythmicity of SAN / pacemaker / pacesetter / heart of hearts → Receive AVN → His Bundle → Purkinje fibre → Systole (Relevant points related to the conduction of cardiac signal / impulse hence the rhythmicity of heart beat give full score)	3	3
		<u>Scheme Finalization Team</u> 1. Stanley Roy B (154854) - 9447862765 2. Sathyajith. K.Y (158155) - 9447479997 3. Sreedevi. K (411409) - 9847315557 4. Anil Antony Therattil (411074) - 9446761338 5. Rajesh kumar. R (704070) - 9281493163 6. Sunil kumar (393171) - 9495824297 7. Shajina. M (232100) - 9495804703 8. Laly Joseph (234113) - 9747259673 9. Manikandan. M (232403) - 9447439310 10. Pushpavathy. M.V (414426) - 9744758792 11. Manoj. M. C 392626 - 9846505145		