

ANSWER KEYI YEAR HIGHER SECONDARY EXAMINATION March 2023PART-~~II~~/IIISUBJECT: ZoologyCODE NO: Fy ~~22B~~ 426BVERSION: ★30 SCORES1 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
		Answer any 3 questions from 1-5.		
1.		Carbonic anhydrase	1	1
2.		Pericardium	1	1
3.		a) Panthera leo	1	1
4.		Renal Calculi / Kidney stone	1	1
5.		Synaptic cleft	1	1
		Answer any 9 questions from Qn. no 6-16. Each correct answer carries 2 score.		
6.	a) SA node / sino-atrial node b) Heart beat originates from the pacemaker		1 1	2
7.		ADH - Water Reabsorption Angiotensin II - Powerful vasoconstrictor ANF - Cause dilation of blood vessels Aldosterone - Reabsorption of Na <sup>+</sup>	$\frac{1}{2} \times 4$	2
8.		• A signal sent out by CNS • Release of neurotransmitter • Release of Ca <sup>++</sup> into sarcoplasm • Binding of Ca <sup>++</sup> with troponin • Remove the masking of active sites for myosin.	$\frac{1}{2} \times 4$	2

n. No	Sub Qns	Answer Key/Value Points	Score	Total Score
9.		Rana, Calotes, Scoliodon, Hippo Campus.	$\frac{1}{2} \times 4$	2
10.		<p style="text-align: center;"> <u>Glycine</u>                      <u>Serine</u>  <math display="block">\begin{array}{c} \text{COOH} \\   \\ \text{H} - \text{C} - \text{NH}_2 \\   \\ \text{H} \end{array}</math> <math display="block">\begin{array}{c} \text{COOH} \\   \\ \text{H} - \text{C} - \text{NH}_2 \\   \\ \text{CH}_2 - \text{OH} \end{array}</math> </p>	1 x 2	2
11.	a)	<p>Ball and Socket Joint (between humerus and pectoral girdle)          hinge joint (knee joint)          pivot joint (between atlas and axis)          gliding joint (between the Carpals)          saddle joint (between Carpal and metacarpal of thumb)</p> <p>(Any two joints needed. Suitable examples can be given score)</p>	$\frac{1}{2} + \frac{1}{2}$          $\frac{1}{2} + \frac{1}{2}$	2
12.	a)	<p>A. Apo enzyme          B. Prosthetic group</p> <p>b) Enzyme lose its catalytic activity and become inactive.</p>	$\frac{1}{2}$  $\frac{1}{2}$  1	2
13.	a)	<p>Electro Cardio gram / Electro Cardiograph.</p> <p>b) P - depolarisation / excitation of the atria / Atrial systole          QRS Complex - depolarisation of the ventricles / ventricular systole</p>	1  $\frac{1}{2}$  $\frac{1}{2}$	2
14.	a)	<p>Ctenophora          b) Cnidaria / Coelenterata          c) Echinodermata          d) Hemichordata.</p>	$\frac{1}{2} \times 4$	2

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15.	a b	Oxygen dissociation Curve / Oxygen - Hb dissociation curve High $PO_2$ , low $PCO_2$ , Lesser $H^+$ Conc; and lower temperature (any three)	$\frac{1}{2}$ $\frac{1}{2} \times 3$	2
16.		Any two differences	1x2	2
		Answer any three questions from Qn. no 17-20. Each correct answer carries 3 score.		
17.	a) b) c)	Nucleosides - Nitrogen base + Pentose sugar Nucleotides - Nitrogen base + Pentose sugar + phosphate group. (diagrammatic representation also can be considered). Primary metabolites - have identifiable roles in metabolic activities / eg: Secondary metabolites - by products of metabolism / eg: Ligases - Enzymes that link compounds together Lyases - Catalyse removal of groups or figure	1 1 1	3
18.		Acoelomates Coelomates Pseudocoelomates (Explanation on any two) Examples	1x2 $\frac{1}{2} \times 2$	3
19.	a b c d e f	Midbrain Cerebrum Cerebellum Dura mater Arachnoid membrane Pia mater.	$\frac{1}{2} \times 6$	3
20.	a b c	$\alpha$ - Cells and $\beta$ Cells. $\alpha$ cells produce glucagon $\beta$ Cells produce insulin Pancreas (Any relevant answer)	1 $\frac{1}{2}$ $\frac{1}{2}$ 1	3






Leader

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Participants

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