DITTO ws

ANSWER KEY

FIRST YEAR HIGHER SECONDARY IMPROVEMENT / SUPPLEMENTARY EXAMINATION OCTOBER 2022 PART III

SUBJECT ZOOLOGY

SCORE	S		1	HOUR
Qn No	Sub One	Anamor kon / Volus nainta	80000	Total
QII NO		Answer key / Value points	Score	score
	<u>l.</u>	Answer any 3 Questions from 1 to 4. Each carries 1		
1	ļ	Amino Acids	1	
2		Salivary Amylase	1	1
3 4		Pons Pineal	1	<u>1</u> 1
4				ı
	II. A	nswer any 9 Questions from 5 to 17 . Each carries 2 Class - Order - Family - Genus - species	scores	
5		(Correct sequence can be considered)	1/2 × 4	0
<u> </u>		Sycon - Porifera	1/2 X 4	2
		Adamsia - Cnidaria		
6		Taenia - Platyhelminthes	1/2 X 4	2
		Ancylostoma - Aschelminthes	 	
		A. Ambhibia	-	
		B. Osteichthyes		
7		C. Cyclostomata	1/2 X 4	2
		D. Chondrichthyes		
		A Diploblastic B. Triploblastic	1/2 X 2	
		Es Ctananhara/ Es Blatuhalminthes		
		Eg Ctenophora/ Eg:- Platyhelminthes Annelida	}	
•		Hemichordata		_
8		Arthropoda	1/2 X 2	2
		Mollusca	İ	
		Echinodermata		
		Chordata		
	-	A. Tubular parts of nephron / PCT / Nephron /		
		Ducts of glands		
9		B. Squamous	1/2 X 4	2
		C. Diffusion		
		D. Columnar		
		Nymph	1/2	
		Paurametabolus	1/2	
10		Economic importance	172	
. •		They are pests/Transmit a variety of bacterial		
		diseases by contaminating food materials/any	1 1	
		relevant response	1/2 X 2	2
11		A. Mouth		
		B. Crop	1/2 X 4	2
		C. Hepatic Caecae		
		D. Malpighian tubules		
		A. Ducts from liver / hepatic duct		
12		B. Pancreatic duct /pancreas	1/0 // /	_
	l 1	C. Common Bile duct / bile duct	1/2 X 4	2
	· •	D. Gall Bladder	- 	

,			

DITTO W S

		Albumin		
		Fibrinogen	1/2 X 2	
40		Functions	1/2 / 2	
13		Albumin helps in osmotic balance	-	
		Fibrinogen needed for clotting or	- [
		coagulation of blood	1/2 X 2	2
	<u> </u>	Inspiration - steps		
		Ribs and sternum raised/ inter costal muscles	7	
		contracts		
14		Volume of thorax increased	1/2 X 4	2
14		Diaphragm contracted	1/2 × 4	2
		Air entering lungs		
		or		
		Any correct explanation carries full score]	
_		Functions of hypothalamus		
		Control Body temperature		
		Urge for eating and drinking]	
15		Regulation of sexual behaviour	1/2 X 4	2
.0		Regulation of expression of emotional reactions	""	_
		(like excitement,pleasure,rage and fear and		
		motivation)	_	
		Secretion of hormones		
		Emergency hormone - effects	_	
		Increase alertness	_	
		pupilary dilation		
		Piloerection(raising of hair)		
		sweating	7	
16		Increase heart beat/increase rate of respiration	1/2 × 4	2
		Increase strength of heart contraction	1	
		Increase concentration of glucose in blood	1	
		stimulate breakdown of lipids and proteins	7	
		stimulate breakdown of glycogen	1	
		(Any four points)	7	
		Part A : Synaptic vesicle / Neuro transmitter /	1	
		Acetyl choline / pre synaptic membrane /	1/2	
		Pre synaptic knob (Any One)	1	
		Function : Helps in impulse transmission /		
		neurotransmitter (Acetyl Choline)	1/2	
47		helps in chemical transmission	 	_
17		Process: Synaptic transmission/		2
		Nerve transmission /	1 1	
		Chemical transmission /	'	
		Neural transmission]	
		Answer any 3 Questions from 18 to 22. Each carries 3 s	cores	
18		and any o quotions from 10 to LL Edon dallies of		
	а 	Carbonic anhydrase	1	
	b	20-25 % combines with amino group of Haemoglobin	1	
		to form carbamino haemoglobin and transported	1	-

$\overline{}$	
,	
~	

DITTO W S

		D		
	С	Remaining 7 % of CO ₂ is carried in a dissolved state		
		through plasma	1	3
		SA Node/ Sino atrial node/Pace maker	1	
ł		AV Node /Auriculoventricular Node/		
		Bundle of His / AV bundle	1	
		Purkinje Fibres	1/2 X 3	
		Function:		
19		AV Node : Impulse transmitted to AV bundle and Bundle of His		3
		Bundle of HIS: From bundle of His impulse	400	
		transmits through the atrio ventricular musculature	1/2	
		Purkinje Fibres : Enables ventricular contraction by	i	
		transmitting impulse through the ventricular musculature		
		Glomerular Filtration		
		Comercial Filtration Tubular reabsorption / reabsorption		
:		Tubular reabsorption / reabsorption Tubular secretion / secretion	1/2 × 2	
			1/2 X 3	
l i		Glomerular filtration- ultra filtration, which is carried out in glomerulus	1/2	
20		Tubular reabsorption - 99 % of the filtrate reabsorbed by the renal tubule glucose, amino acids ,Na + etc. in the filtrate are reabsorbed actively. Nitrogenous wastes and and water reabsorbed passively	1/2	3
		Tubular secretion - Tubular cells secrete substances like H + , K + and ammonia into the filtrate .This helps in the maintanance of ionic and acid base balance of body fluids	1/2	
	а	Actin , myosin	1	
21	b	I Band get reduced	1	3
"		H Zone disappears		J
	С	Sarcomere	1	
		Presence of feathers and wings	1	
20		2. Pneumatic bones / long bones are hollow with air	1	
22		cavities		3
		3. Air sacs connected to lungs supplement respiration	1	
		(Any 3 relevant flight adaptations)		

1	Gireeshkumar A	9447519525
2	Dr.Sushil Kumar C	9495107035
3	Rajeshkumar R	A 8281493163
4	Jiji Thomas	9961990919
5	Diveesh K P () しんしん	9745566068
6	Vinnu V Dev	9447247615
7	Rekha K D	9447968299
8	Joju Wilson	9447735905
9	Basheer S	7736486658
10	Kishore Kumar R	9495619829
11	Geetha Nair S	9446279977