

ISLAMIAH MAT HR SEC SCHOOL, KILAKARAI, RAMANATHAPURAM DT.

XI COMMON PUBLIC EXAMINATION, MAY -2024 (18-03-2024)

TENTATIVE ANSWER KEY Question type B

SUB: BIO-ZOOLOGY MARKS: 35

Q.NO	CONTENT	MARKS	MODE OF		
			QUESTION		
	PART -I				
			BOOK BACK /		
I.	CHOOSE THE CORRECT ANSWER	8 X 1 = 8	BOOK INSIDE/		
			CREATIVE		
1_	a , Assertation and reason are correct and related	i 1	BOOK BACK		
2	a , goitre	1	BOOK BACK		
3	d , limbic system	1	BOOK INSIDE		
A	a Tidal valuma (TV) Lassivatara Dasses	1	DOOK BACK		
4	c, Tidal volume { TV } + Inspiratory Reserve	1	BOOK BACK		
	Volume { IRV } + Expiratory Reserve Volume				
	{ERV}		DOOM DAGW		
5	d , Inner wall of the Bowman's capsule	1	BOOK BACK		
6	d , Evolutionary and phylogenetic	1	BOOK BACK		
0	a, Lyonulonary and phylogenetic	1	DOOK DACK		
7	a , Mosaic	1	BOOK BACK		
,	a , 1.100uic	T	2001t Bridit		
8	b , Emulsification	1	BOOK BACK		
Q.NO	CONTENT		MODE OF		
		MARKS	QUESTION		

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II.	PART -II ANSWER ANY FOUR OF THE FOLLOWING	4 X 2 = 8	BOOK BACK / BOOK INSIDE/ CREATIVE
9	 Tetany is caused due to the hyposecretion of parathyroid hormone (PTH). Due to hyposecretion of PTH serum calcium level decreases (Hypocalcemia), as a result serum phosphate level increases. Calcium and phosphate excretion level decreases. Generalized convulsion, locking of jaws increased heart beat rate, increased body temperature, muscular spasm are the major symptoms of tetany. 	2	BOOK BACK
10	 Frog respires on land and in the water by two different methods. In water, skin acts as aquatic respiratory organ (cutaneous respiration). Dissolved oxygen in the water gets, exchanged through the skin by diffusion. On land, the buccal cavity, skin and lungs act as the respiratory organs. In buccal respiration on land, the mouth remains permanently closed while the nostrils remain open. The floor of the buccal cavity is alternately raised and lowered, so air is drawn into and expelled out of the buccal cavity repeatedly through the open nostrils. Respiration by lungs is called pulmonary respiration 	2	BOOK BACK
11	PROBITICS BACTRIA: There are beneficial probiotic bacteria. PATHOGENIC BACTER: These are harmful bacteria which are diversely populated	2	BOOK BACK
12	External nostrils – Nasal cavity – Trachea – Primary branchus – Secondary branchus – Tertiary brachi – smaller bronchioles Alveoli	y 2	BOOK BACK

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13	In human the dental formula is 2123 /2123 x 2	2	BOOK INSIDE
14	In phylum platyhelminths Specialized excretory cells called flame cells help in osmoregulation and excretion.	2	BOOK BACK
•	•	•	•
Q.NO	CONTENT	MARKS	MODE OF QUESTION
III.	PART -III ANSWER ANY THREE OF THE FOLLOWING	3 X 3 = 9	BOOK BACK / BOOK INSIDE/ CREATIVE
15	 Adipose tissue is called 'white fat' or white adipose tissue. White fat stores nutrients whereas brown fat is used to heat the blood stream to warm the body. The adipose tissue which contains abundant mitochondria is called 'Brown fat' or Brown adipose tissue. Brown fat produces heat by non-shivering thermogenesis in neonates. 	3	BOOK BACK
16	 A healthy animal eat, drinks and sleeps well regularly. Healthy cattle appear bright, alert and active in their movement with a shiny coat. Cattle are affected by a large number of diseases. The main diseases of dairy cattle are rinderpest, foot and mouth disease, cow pox, hemorrhagic fever, anthrax. 	3	BOOK INSIDE
17	The first heart sound (lub) is associated with the closure of the tricuspid and bicuspid valves where second heart sound (dub) is associated with the closure of the semilunar valves. These sounds are of clinical	ıre	BOOK BACK

		•	
	diagnostic significance.		
18	 Adrenal cortex has three distinct zones, zona glomerulosa, zona fasciculata and zona reticularis. 	3	BOOK BACK
	 Zona glomerulosa an outer thin layer constitutes about 15% of adrenal cortex, and secretes mineralocorticoids. Zona fasciculata, the middle widest layer constitutes about 75% of adrenal cortex and secretes glucocorticoids such as cortisol, corticosterone and trace amounts of adrenal androgen and oestrogen. Zona reticularis, an inner zone of adrenal cortex constitute about 10% of adrenal cortex and secretes the adrenal androgen, trace amount of oestrogen and glucocorticoids 		
19	Osmoconformers are able to change their	3	BOOK INSIDE
	internal osmotic concentration with change in external environment as in marine molluscs and sharks.		
	• Osmoregulators maintain their internal osmotic concentration irrespective of their external osmotic environment (example:		

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Otters).

Q.NO		CONTENT		MARKS	MODE OF	
	,				QUESTION	
	PART –IV					
					BOOK BACK /	
IV.	ANSWEI	R ALL THE QUEST	ION	$2 \times 5 = 10$	BOOK INSIDE	
		•			CREATIVE	
20 (a)	Chordates	Non- <mark>chordate</mark> s		5	BOOK INSIDE	
	Notochord is present	Notochord is absent Double ventral solid nerve cord		_		
	Dorsal, hollow and single nerve cord Pharynx perforated by gill slits	Gill slits absent				
	Heart is ventrally placed	Heart is dorsal or laterally placed or absent				
	A post anal tail is present	A post anal tail is absent				
	Alimentary canal is placed ventral to the nerve cord	Alimentary canal is placed dorsal to the nerve cord				
20 (b)				5	BOOK BACK	
	Tactile merkel disc is light touch receptor					
	lying in the					
	Hair follicle receptors are light touch receptors					
	lying around the	hair follicles.				
	 Meissner's cor 	puscles are small ligl	nt pressure			

receptors found just beneath the epidermis in the dermal papillae. They are numerous in hairless skin areas such as finger tips and soles of the feet.

- **Pacinian corpuscles** are the large egg shaped receptors found scattered deep in the dermis and monitoring vibration due to pressure. It allows to detect different textures, temperature, hardness and pain
- **Ruffini endings** which lie in the dermis responds to continuous pressure.
- **Krause end bulbs** are thermoreceptors that sense temperature

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