



**ISLAMIAH MAT HR SEC SCHOOL,
KILAKARAI, RAMANATHAPURAM DT.**

XI COMMON PUBLIC EXAMINATION, MARCH -2025 (17-03-2025)

TENTATIVE ANSWER KEY
Question type A

SUB:BIO-ZOOLOGY

MARKS: 35

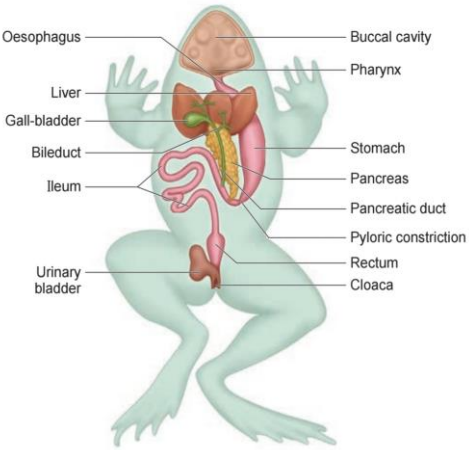
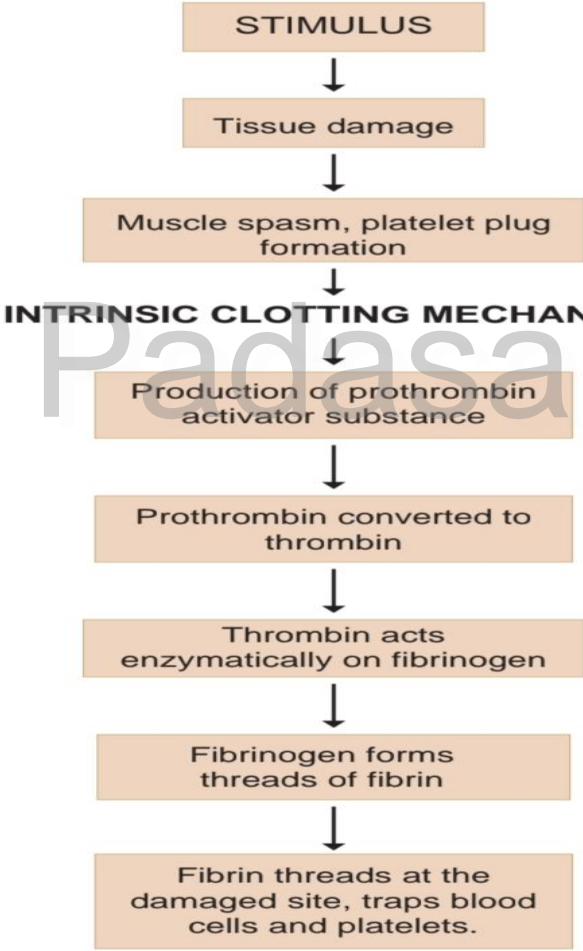
Q.NO	CONTENT	MARKS	MODE OF QUESTION
I.	PART -I CHOOSE THE CORRECT ANSWER	8 X 1 = 8	BOOK BACK / BOOK INSIDE/ CREATIVE
1	c. Ornamental breeds - silkie	1	BOOK INSIDE
2	a. Increased energy output for nerve impulse conduction	1	BOOK BACK
3	a. Pneumatic bones	1	BOOK INSIDE
4	b. Areolar Tissue	1	BOOK INSIDE
5	a. Carbamino haemoglobin	1	BOOK BACK
6	d. Plasma membrane - Neurilemma	1	BOOK INSIDE
7	a. The Total surface area of the capillaries is larger than the total surface area of the arterioles	1	BOOK BACK
8	a. Antidiuretic hormone	1	BOOK BACK

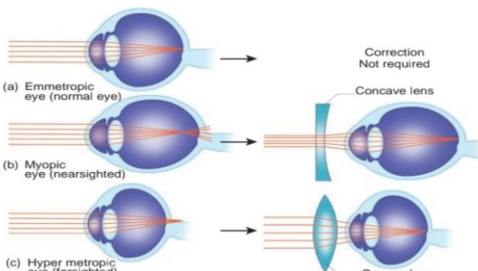
Q.NO	CONTENT	MARKS	MODE OF QUESTION
II.	PART -II ANSWER ANY FOUR OF THE FOLLOWING	4 X 2 = 8	BOOK BACK / BOOK INSIDE/ CREATIVE
9	Charles Darwin has written the book “Origin of Species” in 1859. In this book, he has explained the relationship between evolution and the origin of species through natural selection.	2	BOOK BACK
10	It includes both marine and freshwater fishes. Presence of bony endoskeleton and spindle shaped body	2	BOOK BACK
11	They breathe through their skin. Air dissolves on the mucus of their skin.	2	BOOK BACK
12	It is the total amount of air exhaled after maximal inhalation. $VC = TV + IRV + ERV$	2	BOOK INSIDE
13	the proximal convoluted tubule (PCT).	2	BOOK BACK
14	Cortisol, aldosterone, testosterone, oestrogen, progesterone.	2	BOOK INSIDE

Q.NO	CONTENT	MARKS	MODE OF QUESTION
III.	PART -III ANSWER ANY THREE OF THE FOLLOWING Question No 19 is compulsory	3 X 3 = 9	BOOK BACK / BOOK INSIDE/ CREATIVE
15	Air bladder is present with or without a connection to the gut. It helps in gaseousexchange (lung fishes) and for maintaining buoyancy in most of the ray finned fishes.	3	BOOK BACK

16	Both caecum and vermiform appendix are large in herbivorous animal and act as an important site for cellulose digestion with the help of symbiotic bacteria.	3	BOOK INSIDE
17	Silk is used in industries and for military purposes. It is used in the manufacture of fishing fibers, parachutes, cartridge bags, insulation coils for telephone, wireless receivers, tyres of racing cars, filter fibres, in medical dressings and suture materials.	3	BOOK BACK
18	Adrenalin increases liver glycogen breakdown into glucose and increases the release of fatty acids from cells. During emergency it increases heart beat rate and blood pressure. It stimulates the smooth muscles of cutaneous and visceral arteries to decrease blood flow. It increases blood flow to the skeletal muscles thereby increases the metabolic rate of skeletal muscles, cardiac muscles and nervous tissue. It includes both marine and freshwater fishes. Presence of bony endoskeleton and spindle shaped body.	3	BOOK BACK
19	Pivot joint -between atlas and Axis Plane/gliding joint -between the carpals Saddle joint -between the first carpal and Metacarpal Ball and socket joint between humerus and pectoral girdle Hinge joint knee joint Condylod or Angular Or Ellipsoid between radius and carpal	3	BOOK INSIDE

Q.NO	CONTENT	MARKS	MODE OF QUESTION
IV.	PART -IV ANSWER ALL THE QUESTION	2 X 5 = 10	BOOK BACK / BOOK INSIDE/ CREATIVE

20 (a)	 <p>Figure 4.18 Digestive System of <i>Rana hexadactyla</i></p>	5	BOOK BACK
20 (b)	 <p>Figure 7.3 Schematic Representation of Blood Coagulation in an injured Blood Vessel</p>	5	BOOK INSIDE
21 (a)		5	BOOK INSIDE

	<p>Refractive Errors of Eye</p> <p>Myopia (near sightedness): The affected person can see the nearby objects but not the distant objects. This condition may result due to an elongated eyeball or thickened lens; so that the image of distant object is formed in front of the yellow spot. This error can be corrected using concave lens that diverge the entering light rays and focuses it on the retina.</p> <p>Hypermetropia (long sightedness): the affected person can see only the distant objects clearly but not the objects nearby. This condition results due to a shortened eyeball and</p> <p>ii) The green cones having the pigment, chloropsin is sensitive to medium wavelength of 530 nm iii) the blue cones having the pigment, cyanopsin is sensitive to short wavelength of 420 nm.</p>  <p>Figure 10.16 Refractive errors of the eye</p>		
21 (b)	<p>Economic importance of fish</p> <p>Fishes from a rich source of protein food and provide a good staple food to tide over the nutritional needs of man. Fish species such as sardines, mackerel, tuna, herrings have high amino acids concentrations particularly histidine which is responsible for the meaty flavor of the flesh. It is rich in fat such as omega 3 fatty acids. Minerals such as calcium, magnesium, phosphorus, potassium, iron, manganese, iodine and copper. Some of the fish by - products are:</p> <p>Fish oil is the most important fish by product. It is derived from fish liver and from the fish body. Fish liver oil is derived from the liver which is rich in vitamin A and D, whereas fish body oil has high content of iodine, not suitable for human consumption, but is used in the manufacture of laundry soaps, paints and cosmetics.</p> <p>Fish meal is prepared from fish waste after extracting oil from the fish. The dried wastes are used to prepare food for pig, poultry and cattle. The wastes obtained during the preparation of fish meal are widely used as manure.</p>	5	BOOK BACK

E. VINOTH KUMAR., M.Sc., MSc., B.Ed.,
HOD IN ZOOLOGY,
ISLAMIAH MAT HR SEC SCHOOL,
KILAKARAI, RAMANATHAPURAM DT.,
7639802621

- Daily classes by **Namakkal Well Experienced Staff**
- Two years integrated program for **XI and XII - NEET**.
- We provide online test for both **NEET**.
- Weekly intensive test for **NEET**.
- We teach from basics make you achievers.
- Learn with interest without stress.
- Daily practice test and monthly cumulative test for state board.
- Extra care for slow learners.

Padasalai.Net