## First Terminal Evaluation 2024-'25 BIOLOGY Class 10

Qn	Answer Key / Hints (English medium)	Score	Tota
L	Melanin. 2. iii)- a, d correct. By Rasheed Odakkal, 9846626323 GVHSS Kondotty	1, 1	
3	a). Statement (ii) is the reason for statement (i).	1	
ŀ	X= Sensory neuron, Y= Motor neuron.	1/2 +1/2	
5	(i) -Ommatidia, (ii) –Thousands of small eyes/for clear vision/cluster of Photoreceptors.	1/2 +1/2	5x1
6	b). Vasopressin/ADH. d). Goitre.	1/2 +1/2	
7	a). Grey matter. b). Myelin sheath, which accelerates impulse, is absent in it.	1+1	
	a). (i)- Eustachean tube (ii) – Auditory canal.	1/2 +1/2	
	b). Protects the tympanum by balancing the pressure on either side of it.	+1	
)	True. The action of epinephrine and norepinephrine prolongs body activities for a longer		
-	time, when the sympathetic nervous system gets stimulated.		
0	a). Continuous and irregular flow of electric charge.	1/2	
	b). Epilepsy: Continuous muscular contraction/ frothy discharge from the mouth/	1⁄2+1	
	clenching of the teeth/ the patient falls unconscious. (any 2 symptoms).	1 / . 1 /	
1	a). Thymus, Thymosin. b). Thymus control the activities and maturation of T	1/2 +1/2	
2	lymphocytes which help to impart immunity.	+1	
2	a). (i)-Semicircular canals, (ii)- Cochlea.	1/2 +1/2	
า	b). Defects of (ii) adversely affects body balncing and that of (iii) affects hearing.	+1	
13	Take 2ml of the sample in a test tube. Add 2ml Benedict solution into it. Heat for 2	2	6x2
1	minutes. Observe the change in colour. a). Rod cell. b). This leads to the formation of impulses, which are transmitted to the	2	
14			
	cerebrum through optic nerves and this enables vision. c). Affect the production of retinal which is a derivative of Vitamin A.	1+1+1	
5	(a). Cerebrum (b). Grey coloured cortex and white colouerd medulla.	2	
15	(c). Cerebellum (d). Seen as two flaps.		
	(e). Rod shaped (f). Controls involuntary actions.	<sup>1</sup> ⁄2each	
6	a). X= Testis. GTH stimulates this gland.	11/2	
-	b). Testosterone : Controls secondary sexual characters and sperm production.	11/2	
17	a). X= Synaptic knob. b). Acetylcholine, Dopamine.		
	c).No, the part Y can't secrete neurotransmitters.	1+1+1	
8	A-Pancreas B- Islets of Langerhans		
	E- Glucagon F- Insulin		
	H- Synthesizes glucose from amino acids J- Cellular uptake of glucose molecules.	1⁄2each	
9	a). (i). Cornea, (ii). Iris.		
	b). (iii). Lens : Focuses the light rays from the object / formation of image on retina.		
	(iv). Optic nerve : Transmits impulses from photoreceptors to the visual centre in		
	the brain.	1+2	
20	Aromatic particles enter the nostrils and dissolve in the mucus inside the nostrils.		
	The olfactory receptors in the mucus membrane get stimulated.	3	5x3
	Impulse thus formed reaches the brain through the olfactory nerve. Feel the smell.	5	
1	a). Dendrite 🔨 🎽 Eb). Schwann cells	1Draw	
	c). Axon	1+1+1	
	a). Dendrite b). Schwann cells		
h			
2	a). X- Parathyroid, Prathormone.		
	b). When a decrease in the level of calcium in blood occur.	1.1.7	
	c). Parathormone increases the level of calcium in blood by reabsorbing calcium from	1+1+2	
23	kidneys to blood and also preventing the storage of calcium in bones. * Pinna collects sound waves. * Sound waves cause the eardrum to vibrate.		
23	* Bones in the Ear ossicles vibrate. * Oval window vibrates.		
	* The fluid in the cochlea moves.		
	* The sensory hair cells of the Organ of Corti are stimulated.		2x4
	* Impulses are generated in the sensory hair cells.		
	* Impulses reach the cerebrum through the auditory nerve.		(40)
		4	