SSLC MODEL EXAMINATION FEB 2023 BIOLOGY

Qn		Answer Key / Hi By Rasheed Odakkal, 984	· · ·		Score	Tota l
1	Oncology.		10020020, 0 1		1	
2	(a). <u>ommatidia</u>	<u>a</u> (c). <u>radial muscles</u>			1/2+1/2	
3	(b). Gene mapping.					
1	Crossing over.					
5	Glucagone. Others are hormones of adrenal gland.					5x1
5	-	Mutation theory / Theory of Hugo deVries.				
7	(a). The positive ions get inside, while the negative ions come out side the membrane.				1	
	(b). Yes. This charge difference stimulates its adjacent parts and similar changes occur					
	there, result	there, resulting a continuous flow of the impulse.				
}	(a). B -lymphocytes. (b), Antibodies destroy germs by disintegrating tbacterial cell					
	membrane, neutralise their toxins and stimulate the other white blood cells. (any 2)					
)	Spinal ref	Spinal reflex Cerebral reflex				
	(a). A thorn picked the leg suddenly (c). Light suddenly flashed and eyes					
	(e). Under the control of the spinal cord. (d). Under the control of the cerebrum.				½ x4	
0	(a). Corynebacterium diphtheriae.					
	(b). Fever, throat pain, inflammation in lymph glands of the throat. Mucus membrane					
	\sim	ash coloured thick coating	0 (any 2)	1+1	
1	(a). i. ttrr ii. (TR		l seed.		1+1	
2	(a) Haemophilia					
-		<u> </u>		injecting the deficient protein.	1+1	
3				ptations to live in their own		6x2
		s organisms were evolved	from a com		2	
4	A B C					
	Oval window	Membrane seen attached to	o the stapes	Spreads the vibration of ear ossicles to the inner ear		
	Eustachian tube	Connects the middle ear ar	nd pharynx	Balance the pressure on either side of the tympanum		
	Tympanum	A thin circular membrane t the middle ear from the ex		Vibrates in resonance with sound waves.	1+1+1	
5	(a). X= Central canal, Cerebrospinal fluid. (b). Y= Dorsal root, Z= Ventral root.					
	(c). No, the Y (d motor impuls		y impulses ai	nd the Z (ventral root) carries	1+1+1	
16	-	ii. Auxine. iii. Gibbere	ellin. iv. Br	eak down of stored food to		
	facilitategerm	facilitategermination. v. Abscicic acid. vi. Cell differentiation.				
7	(a). $X = mRNA$,	Y= Ribosome.			½ x6	
	(b). The X, (mR	NA) carries information f	for protien s	ynthesis from DNA to the		
	ribosomes.	(c). Protie	n synthesis /	binding amino acids.	1+1+1	
8	(a). Fatty liver, S					
				etes and hypertension, Take		
				its of smoking and alcohol		
	-	, Proper exercise (any 4	· ·		1+2	
19	(a). The collected DNA sample and that of the Suspect 2 are same.					
	(b). The arrangement of nucleotides in the DNA of each person differs.(c). To find out hereditary characteristics, To identify real parents in the case of					
					1+1+1	
	parental dispute, To identify persons found after a long periods of missing. (any 2)					
20	b. Formation of atmosphere of primitive earth. d. Formation of ocean.					
	c. Formation of simple organic molecules. a. Formation of complex organic molecules					5x3
	f. Nucleic acids,		e. Primitiv	e cell.	3	
21		s. (b). Monocytes, Neu	-		1+1+2	
			re destroyed	by the enzymes in lysosome.		
22	(a). Somatotropin, Prolactin.(b). Oxytosin, which facilitates child birth by stimulating the contraction of smooth					
		he uterine wall and also fa				

	 Vasopressin, which helps in the reabsorption of water in the kidney. (any 1) (c). Releasing hormone, Inhibitory hormone. (d). Releasing hormone stimulates the anterior lobe of the pituitary gland and secretes tropic hormones. Inhibitory hormone inhibits the production of tropic hormones. 				
23	(a). i. Optic nerve.				
	ii. Yellow spot. (Redrawing)	1+	2x4		
	(b), X (aqeous humor) supplies nutrients and oxygen to cornea and lens. Y (vitreous humor) helps to maintain the shape of eyeball.	1+1+2	(40)		