SSLC Examination March 2024 - BIOLOGY

	Hints to Answers (English medium) by Rasheed Odakkal, GVHSS Kondotty								
1	Photopsin / Iodopsine. 2. (c) Protein.								
3	Eosinophil: Synthesizes chemicals required for the inflammatory responses.								
4	Ethylene. 5. (b) Gene mapping. 6. (b) <u>Charles Darwin</u> . 5								
7	(a). Alzheimer's. (b) Accumulation of an insoluble protein in the neural tissues of the brain. Neurons get destroyed.								
8	(i). The decreased production of thyroxine (hypothyroidism) during the foetal stage or infancy.								
	(ii) Thyroid. (iii) Hypothalamus. (iv) Diabetes insipidus.								
9	(a). Crossing over of Chromosomes. (b) A difference in the distribution of genes, causes the expression of new characters / variations in offsprings.								
10									
	membrane. (b). As haemophilia is a genetic disease, a complete cure is not possible.								
11	Production of saliva decreases, Glycogen is converted to glucose.								
12	(a). Theory of Chemical evolution / Oparn-Haldane hypothesis.								
	(b) L	b) Life originated as a result of the changes that occurred in the chemical substances in							
		seawater, under specific conditions in primitive earth.							
13		* Lung cancer, Bronchitis, Emphysema (any 2) to the respiratory system.							
	* Hypertension, Loss of elasticity of arteries, Decrease in functional efficiency of heart (any 2).								
14					(b) Neurotransmitter (Acetylcholine/Dopamine).				
		(c) Neurotransmitter, secreted from the synaptic knob, stimulates the adjacent dendrite or cell							
1_	and new electric impulses are generated there.								
15	The drawing particles enter the nostrio.								
	Stimulate the olfactory receptor.Impulses reach the brain.Generate impulses.Experiences smell.								
16			Loss of cough.	ss of body weight, fatigue, persistent ugh.			When the patient speaks, coughs or sneezes, the pathogens spread into the air.		
	Hepatitis		Dark yellow colour to the mucus membrane, white portion of the eyes and the nails.				Contaminated food and water, blood components and excreta of the patient.		
			High fever with shivering and profuse sweati -ng, headache, vomitting, diarrhoea, anaemia				Spread by female anopheles mosquito		
17	Blood		Group	Antigens	Antibodies				
		A	\	A	b				
]		3	В	a	-	Prepared by Rasheed Odakkal , 9846626323 GVHSS Kondotty		
			R	A and B					
		AB O		A allu D	a and b	_			
18									
	DNA RNA								
10	Deoxyribose sugar, Doble helical modelThymine. Ribose sugar, Uracil, Single strand.								
19	(a). X= Plasmid / Circular DNA. 5x3								
20	(b). Used as vector which contain ligated genes enter target cells.							JAJ	
20		In both, the enzymes control chemicalreactions, energy is stored in ATP molecules, genes							
	deter	determine hereditary traits and carbohydrates, proteins and fats are the basic substances. (any 3							
21	(a). Thyroid. (b). Parathormone. (c). Reabsorbs calcium from kidneys to blood.								
22	(a). Germs are engulfed and destroyed. (b). Reduces the rate of multiplication of pathogens.								
	` ´	Increases the effect of phagocytosis.							
	(c). R	(c). Reduces the chance of infection. (d). helps to prevent bleeding and checks the entry of							
	pathogens through wounds.								
23		(b) Dendrite—(a) Axon							
		(c) Dendron							
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