SSLC EXAMINATION, MARCH-2019

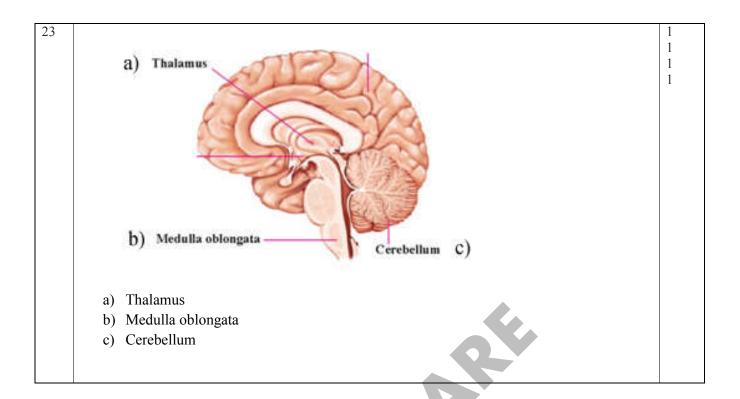
BIOLOGY Total Score: 40 Time: 1^{1/2} Hours

Qn	Indicators		Score		
1	a) Hominoidea.	,			
	b) Mutation theor	у	1/2		
2	Conjunctiva		1/2		
	Iris		1/2		
3	Myelin sheath is formed due to the repeated encircling of Schwann cells around the axone				
4	i. Ribose Sugar				
	ii. AUGC		1/2		
5	Ring worm		1/2		
	Athlete's foot		1/2		
6			1/2		
O	a) Islets of Langerhansb) beta cells				
7			4x ¹ / ₂		
	Managuta Engulfa and dagtrays games		\neg		
	Monocyte	Engulfs and destroys germs			
	Basophil	Stimulates other white blood cells			
	Eosinophil	Produces chemical substances needed for inflammatory response.			
	Neutrophil	Produces chemicals that can destroy bacteria.			
8	A: Malaria		2		
	Pathogens: Protozoa-plasmodium				
	Symptoms				
	High fever with shivering.				
	Profuse sweating, Severe headache				
	Vomiting, diarrhea, anemia				
	B: Tuberculosis.				
	Pathogens: bacteria: Mycobacterium tuberculosis.				
	Symptoms				
	Loss of body weight				
	• Fatigue				
	Continuous dry cough				

					2	
		a) Accumulation of insoluble protein in the neural tissues of the brain.	b) production of dopamine Reduces	d) Irregular flow of electric charges in the brain.		
			c) Loss of body balance			
10		tanley L. Miller and Harold C. Urey heory of chemical evolution				
11		a: Genetic scissors: Restriction endonomes: Genetic glue: Ligase Yes. They will have the ability to pro-				
		The change that occurred in the next generation too. In case of m production.				
2		lood cannot be prepared artificially. So ood. So donate blood and save life.	o we can save the life	of a person by donating	2	
	 A healthy person can donate 300 ml of blood within a period of 6 months. If the level of blood decreases beyond a certain level, it may cause the death of the individual. During such situation for the sustenance of the life the blood donation by a person becomes inevitable. 					
		dividual. During such situation for the	•	y cause the death of the		
	pe	dividual. During such situation for the	sustenance of the life	y cause the death of the		
	— Be	dividual. During such situation for the erson becomes inevitable.	sustenance of the life	y cause the death of the		
.3	 pe Bo Do a) A suc b) Cross 	dividual. During such situation for the erson becomes inevitable. efore transfusion, blood group matching onate blood Donate life. dden heritable change in the genetic cosing over in chromosomes ag fertilization causes change in the allele of	g should be ensured.	y cause the death of the the blood donation by a sm is called mutation.	2	

15	 a) Gamets/ Allele b) Red Flower Hybridization experiment, the allele that controls the dominant character (Red) that is expressed. and the other character remains hidden (recessive character- White) in the offsprings of the first generation. 						3	
16	 a) Brain: Stroke, Addiction to nicotine b) Lungs: Lung cancer, Bronchitis, Emphysema c) Heart: Hypertension, Loss of elasticity of arteriers, Decrease in functional efficiency 					3		
17			A 4		uitary gland	D. Assistant		3
			STH	or lobe ACTH	Prolactin	Posterior Lobe	T	
		TSH Stimulates the activity of the thyroid gland	Promotes the growth of the body.	Stimulates the activity of adrenal cortex.	Production of milk.	Reabsorption of water in the kidneys.	Oxytocin Contraction of smooth muscles in the uterine wall.	
18	 a) Antibiotics are drugs obtained from microorganisms that are used to destroy the growth of other microorganisms that cause diseases. Antibiotics are biochemical substances extracted from living things like bacteria and fungi, which can or prevent the spreading of germs Antibiotics target microorganisms such as bacteria, fungi, and parasites b) Side effects of antibiotics: Regular use develops immunity in pathogens against antibiotics. Destroys useful bacteria in the body. Reduces the quantity of some vitamins, in the body. 					3		
19	ł) Membraneo	mor formed from laborate in amplifies and	the inner ear is	s filled with end		nal ear	3

20	a) A: m	RNA B: Rit	hosome	3			
	b) mRNA: mRNA carries information from DNA to ribosomes and controls protein synthesis						
	c) mRNA molecule that carries information from DNA to ribosomes mRNA reaches ribosomes						
			ferent kinds of amino acids to ribosomes				
		•	ormation in mRNA protein is synthesized in ribosomes adding amino acids.				
21	i.			4			
		berellins					
	b) Aux c) Ethy	ans yphon					
	,	ylene					
	ii.						
	Plant hormor		Promotes cell division, cell growth and differentiation along with auxin.				
	Cytok	inin					
	Absci	sic acid	 Control the dormancy of embryo in the seed, Control the dropping of leaves and fruits, wilting of leaves, Control flowering 				
			Helps to sustain the plant in adverse conditions.				
22	a) A: Re	od cells R		4			
	a) A: Rod cells B: Cone cell b)						
		Photorec	ceptors Function				
		Rod cells	Vision in dim light, black and white vision.				
		Cone cell	Bright light vision, Colour vision.				
	Working of the cone cells						
	• When light falls on cone cells, the photopsin in them dissociate into retinal and opsin . This chemical change creates impulses.						
	Working of rod cells						
	- V	 When light falls on rod cells, the pigment rhodopsin in them dissociate into retinal opsin. This chemical change creates impulses. 					
	c) The						
	• When the pigments in photoreceptors dissociate, impulses are formed. When get the sense of vision, when these impulses reach the brain through optic nerve.						
		CHSC OI VISIC	on, when these impulses reach the orain unough optic herve.				





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