SSLC Examination 2021

Biology Answer key

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1.	DNA- Deoxyribose Sugar				
2	AB				
3	Hypothalamus				
4	Prolactin : Production of Milk				
5	Interferons				
6	Ligase				
7	This is the point of maximum visual clarity				
8	Thymosin				
9	Malaria				
10	Monkey				
11	The outer epidermis of the skin have a protein called keratin, prevents germs from				
	entering it. Sebum, produced by the sebaceous glands makes skin oily and water				
	proof. Sweat, produced by the sweat glands have disinfectants to destroy germs.				
	Skin also contain useful bacteria, which indirectly prevent germs				
12	(a) Substances responsible for taste should dissolve in Saliva to stimulate the				
	chemoreceptors.				
10	(d) The cluster of photoreceptors of a housefly is Ommatidia.				
13	mRNA, which carries information, forms from DNA mRNA reaches outside the nucleus mRNA reaches ribosome Based on the information, amino acids are				
	transferred to ribosomes by the tRNA Ribosomes bind amino acids to form				
	protein molecule				
14	(i) Loss of body balance. Tremor in muscles, flow of saliva				
•	(ii) Continuous degeneration of neurons due to the accumulation of an				
	insoluble protein				
	(iii) Parkinsons				
	(iv) Alzheimer's				
15	a. Reflex Actions				
	b. Cerebral reflex, Spinal reflex				
16	(i) Amino Acid/ Fatty Acid/ Nitrogen Base				
	(ii) Protein/ Fat/ Nucleotide				
	(iii) Primitive Cells				
17	a. Ear-Ear Wax				
	b. Stomach-Hydrochloric Acid				
	c. Trachea- Mucus				
10	d. Urinary Tract- Lysozyme				
18	(a) Cibborallin Sprouting of loaves				
	 (a) Gibberellin - Sprouting of leaves (b) Auxin - Fruit Formation 				
	(U) $\Lambda U \lambda III - FI UIL FUIIII dLIUII$				

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		cisic acid - Dormancy o	-		
	(d) Abscisic acid and Ethylene - Dropping of leaves and fruits				
19	-To find out hereditary characteristics,				
	-To identify real parents in the case of parental dispute				
	-To identify persons found after a long periods of missing due to war or natural				
	calamities.				
		murder, robbery etc.			
20	(i) Calcitonin (ii) Thyroid				
	(ii) Parathormone (iv) Parathyroid				
21	a. Rod Cell				
	b. Rhodopsin				
	c. Vision under dim light				
	d. Night blindness				
22	a. (i) XX				
	(ii)X				
		e can produce X and Y	chromosomes		
23	a. Nuc	cleotide			
	b. A- S	Sugar Molecule B- Nitro	gen Base		
	c. Thy				
24	a. Fail	ure of Cell division mec	chanism		
	b. Env	ironmental factors, smo	oking, radiations, viruses	, hereditary factors and	
	alte	rations in genetic mater	rial (any two)		
	c. Red	luce use of tobacco, Eat	a healthy diet and physic	cally active, early	
		ection of cancer			
25		Cerebellum			
	ii. Maintain the equilibrium of the body				
		Thalamus			
	iv. Centre of thought, intelligence, memory and imagination				
	v. Evoke sensation				
	vi. Analyses impulses from various parts of the body and send to cerebrum				
26		А	В	С	
		Acromegaly	Excessive	Overgrowth of	
			production of	bones on the face,	
			somatotropin after	jaws and fingers	
			growth phase		
		Cretinism	Decreased	Physical and	
			production of	mental growth	
			thyroxine during	retardation in	
			infancy	children	
		Gigantism	Increased	Excessive growth	
			production of	of the body	
			somatotropin		

	i.Auditory Canalii.Eardrumiii.Ear ossiclesiv.Cochleav.Auditory nervevi.Cerebruma.Lymphocytesb.•Through body fluids. • By shari persons. • Through unprotected to her foetusCornea refracts light into the eye.Light enter through the pupil falls on	ng needle and syringe used by HIV affected sexual contact. • From HIV infected mother		
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30	Cornea refracts light into the eye. Light enter through the pupil falls or			
30	Light enter through the pupil falls or			
30				
30	Light enter through the pupil falls on the lens.			
30	Lens focus the light rays into the ret	ina.		
30	Photosensory cells on the retina stin	nulated.		
30	Impulse transmit through optic nerv	e to the cerebrum.		
	Sense of sight			
31		in advance to prevent certain diseases.		
31	Dead, inactive, alive but neutra	lized germs or toxins are used as vaccines.		
31	b. Dead, inactive, alive but neutra	lized germs or toxins are used as vaccines.		
31	c. BCG, OPV, Pentavalent, MMR,	TT		
	i. Struggle for existence			
		rganisms occurs, they compete for food,		
		ted resources (Struggle for Existence). In		
		is with favorable variations survive in that		
		the favorable variations accumulate,		
	resulting the formation of n	ew species. (Natural selection).		
32	a. Phagocytosis			
	b. Monocytes and neutrophils			
	c. Engulfing and destroying germ	S		
33	a. Neuron / Nerve cell			
	b. A:Dendron			
	B :Axon			
	c. Secretes neuro transmitter.			
34	a. i. beta cells ii. Insulin			
	b. It accelerates the process of glu	cose intake by the cells and conversion of		
	the excess glucose in to glycoge	en.		
	c. Diabetes			
35	a. Tuberculosis			
	b. TB bacteria are spread through	the air from one person to another. The TB		
		en a person with TB disease of the lungs or		
		People nearby may breathe in these		
35	the excess glucose in to glycoge c. Diabetes a. Tuberculosis	en. the air from one person to another. The TB en a person with TB disease of the lungs or		

