SSLC MODEL EXAM 2021-BIOLOGY ANSWER KEY ENGLISH MEDIUM

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Qn]	Answer Points		
1	Civeton		
2	Blindspot		
3	Sensory Nerve		
4	A. Phosphate Molecule		
	B. Sugar Molecule		
5	Chemical Evolution Theory		
6	Restriction endo nuclease		
7	Ethylene		
8	Plasmodium -Anopheles Mosquito		
9	Keratin		
10	Interferons		
11	a. Alzheimer's Disease		
10	b. Accumulation of an insoluble protein in the brain, Neurons get destroyed		
12	a. A – Rod Cell B-Cone Cell		
1.0	b. Rhodopsin Photopsin/ Iodopsin		
13			
	n		
	Deoxyribose		
	Deoxyribose		
14	a. DNA finger printing		
	b. Just like the difference in the finger print of each person, the arrangement of		
	nucleotides in each person also differs. Hence this technology is also called		
	DNA finger printing		
15	A. Disease B. Cause C. Symptoms		
	Night blindness Deficiency of Cannot see clearly		
	Vitamin A in dim light		
	Colour blindness Defect of cone Cannot		
	cells distinguish green		
	and red colours		



23	Parts of Brain	Functions	
	Cerebrum	Centre of thought, intelligence, memory and imaginations.	
		evokes sensations.	
		controls voluntary movements.	
	Cerebellum	Coordinates muscular actions.	
		maintains equilibrium of the body.	
	Medulla oblongata	Controls involuntary actions like heart beat, breathing etc.	
24	a. Cancer	0	
	b. Environmen c. As recovery	tal factors, smoking, radiations, virus, hereditary factors from this disease is difficult if the disease becomes severe	
25	Aromatic particles	enter the nostrils through inhaled air (3)	
	 These aromatic pa Stimulate the olface 	rticles dissolve in the mucus inside the nostrils.	
	Generate impulses	S	
	• Impulses rech the	brain through the olfactory nerve	
	We experience sm	ell	
26	HIV Spread Situation	ons (Any 2)	
	• Sexual contact wit	n HIV infected person.	
	By sharing needle	and syringe contaminated with HIV components	
	• The reception of blood and organs contaminated with HIV		
	Do not Spread Situations(Any 1)		
	• By touch, shaking	hands, coughing, sneezing etc.	
	• Through insects li	ke mosquitoes, houseflies etc.	
	• By staying togethe	er and sharing food.	
	• By using the same	toilet	
27	• By taking bath in i	ine same pond	
27	h Monocytes and N	Ieutrophils	
	c. Engulfs pathoger	n in the membrane sac	
28	Sound Waves \rightarrow Pir	$na \rightarrow Auditory Canal \rightarrow Tymphanum \rightarrow Ear Ossicles \rightarrow Oval$	
	window→ Cochlea-	→ Hairy Cells → Impulse → Auditory Nerve → Cerebrum → Sense	
	of Hearing		
29	a. No, they wo	rk only against bacterial diseases.	
	b. • Regular us	es of antibiotics develop immunity in pathogen against	
	• Destroyus	eful bacteria in the body	
	Reduces th	e quantity of some vitamins in the body	
30	a. 9 – 11 mg/1	.00ml	
	b. A) Calcitonii	n B) Parathormone	

	c. 1. Prevent the process of Mixing of calcium from bone to blood.		
01	2. Stores the excess calcium from blood to bone.		
31	Homo erectus – Ability to stand erect		
	Homo habilis – Made weapons from stones and bone pieces		
	Ardipithecus ramidus – Most primitive member of the human race		
32	a. Action of genes		
	b. A) Ribosomes B) m- RNA (Messenger RNA)		
	c. m-RNA carries information from DNA and reaches ribosomes and controls		
0.0	protein synthesis		
33			
	1 Y Y L D Dette		
	Dendrite Axonite		
	Dendroo Synaptic knob		
	A CONTRACT N		
	a. Dendrite		
	b. Axon		
	c. Synaptic knob		
34	a. A and D		
	b. B		
	c. Reason - Decreased production of insulin due to the destruction of beta cells.		
	The inability of cells to utilize the insulin produced		
	d. Symptoms – increased appetite, thirst, frequent urination		
35	a. A – Tuberculosis B- Hemophilia		
	b. by identifying and injecting the deficient protein		
	c. Mycobacterium tuberculosis		
	d. When the patient speaks, coughs or sneezes the pathogen spread into the air		
06	and thereby affect nearby people		
36	a. A)-Cornea B)-Iris C)-Retina D)-Optic nerve		
	D. Cornea refracts light rays to focus on the retina		
	Optic nerve transmits impulses from photoreceptors to the visual centre in		
	the brain		

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