SSLC MODEL EXAM 2021-BIOLOGY ANSWER KEY ENGLISH MEDIUM

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Qn I	Answer Points					
1	Civeton					
2	Blindspot					
3	Sensory Nerve					
4	A. Phosphate Molecule					
	B. Sugar Molecule					
	C					
5	Chemical Evolution Theory					
6	Restriction endo nuclease					
7	Ethylene					
8	Plasmodium -Anopheles Mosquito					
9	Keratin					
10	Interferons					
11	a. Alzheimer's Diseaseb. Accumulation of an insoluble protein in the brain, Neurons get destroyed					
12	a. A – Rod Ce					
	b. Rhodopsin	Photopsin	/ Iodop <u>s</u> in			
13						
	1					
	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 b. Environmental factors, smoking, radiations, virus, hereditary factors c. As recovery from this disease is difficult if the disease becomes severe 				
25	 Aromatic particles enter the nostrils through inhaled air (3) These aromatic particles dissolve in the mucus inside the nostrils. Stimulate the olfactory receptors Generate impulses Impulses rech the brain through the olfactory nerve We experience smell 				
26	 HIV Spread Situations (Any 2) Sexual contact with HIV infected person. HIV infected mother to the foetus. 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 like mosquitoes, houseflies etc. By staying together and sharing food. By using the same toilet 				
27	 By taking bath in the same pond a. Phagocytosis b. Monocytes and Neutrophils c. Engulfs pathogen in the membrane sac 				
28	Sound Waves →Pinna→ Auditory Canal→ Tymphanum→ Ear Ossicles→ Oval window→ Cochlea→ Hairy Cells →Impulse→ Auditory Nerve →Cerebrum →Sense of Hearing				
29	 a. No, they work only against bacterial diseases. b. Regular uses of antibiotics develop immunity in pathogen against antibiotics. Destroy useful bacteria in the body. Reduces the quantity of some vitamins in the body 				
30	a. 9 – 11 mg/100ml b. A) Calcitonin B) Parathormone				

	c. 1. Prevent the process of Mixing of calcium from bone to blood.				
	2. Stores the excess calcium from blood to bone.				
31	Homo erectus – Ability to stand erect				
01	Homo habilis – Made weapons from stones and bone pieces				
	Ardipithecus ramidus – Most primitive member of the human race				
32	a. Action of genes				
01	b. A) Ribosomes B) m- RNA (Messenger RNA)				
	c. m-RNA carries information from DNA and reaches ribosomes and controls				
	protein synthesis				
33					
	Axon				
	L Dendrite MA				
	Dendros Axonite				
	Synaptic knob				
	11 and 1				
	a. Dendrite				
	b. Axon				
34	c. Synaptic knob a. A and D				
54	b. B				
	c. Reason - Decreased production of insulin due to the destruction of beta cells.				
	The inability of cells to utilize the insulin produced				
35					
36					
_					
	Optic nerve transmits impulses from photoreceptors to the visual centre in				
35	 d. Symptoms – increased appetite, thirst, frequent urination 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 and thereby affect nearby people a. A)-Cornea B)-Iris C)-Retina D) -Optic nerve b. Cornea refracts light rays to focus on the retina 				

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