Second Terminal Evaluation 2023-24 BIOLOGY

	Second 1	erminal Evaluation 2023-24			
Qn		Answer Key (English med	ium)		
1	2. (a). Quickwilt in pepper - Fungus (c). Bunchy top of banana - Virus 3. (i). D / Rh (ii). a 4.(a). keratin (c). B-lymphocytes				
5	(b). Plasmodium (protozoa) : A	, , , , ,		5x1	
6	Student 3 : A. Dendrite B. Schwann cell C. Synaptic knob				
7	a). Rat fever (leptospirosis), Le		lood vessels		
8	b). The toxins produced by these bacteria cause damage to blood vessels. Xerophthalmia – Prolonged deficiency of vitamin A				
	Glaucoma – Failure in the reabsorption of aqueous humor				
	Cataract – ens become opaque				
	Colour blindness – Defect of c				
9	a). Wrinkled seed (rr), During gamete formation the factors that determine a particular character segregate without getting mixed. b). Rr Rr				
	segregate without getting int	xeu. v). Ki Ki			
		(R)(r) (R)	(\mathbf{r})		
			•		
10	RR Rr Rr rr				
10	a). (i). toxins (ii). chemicals b) Reduces the rate of multiple	ication of nathogens. Increase	s the effect of phagocytosis		
11	b). Reduces the rate of multiplication of pathogens, Increases the effect of phagocytosis.a). Medulab). Synthesis of glucose from protein and fat. Slows down the action of defense cells.				
		nmation and allergy.			
	c). Aldosteron. d). Maintains t	he salt- water level. Maintains	s blood pressure.		
12	, , , , , , , , , , , , , , , , , , , ,				
13	b). Change occur in the normal distribuion of genes.a). Sickle cell anaemia, Due to change in the structure of haemoglobin and RBC .				
	b). The sickle shaped RBCs ge				
1 4					
14	(a). Break down of stored food in seeds, Sprouting of leaves.(b). Cytokinin.(c). Auxin.(d). Auxin.(e). Ripening of leaves and fruits.(f). Abscisic acid.				
15	a). (i). Block of blood flow due to deposition of fat in coronary arteries. (ii). Smoking.				
	b). Reduce faty or salty food it	ems, Regular exercise, Avoid	the habit of smoking.		
16	T Lymphocytes	Basophil	Antibodies		
	- Stimulates other defense cells of the body.	- Stimulates other white blood cells.	 Neutralize the toxin of the antigens. Destroy the bacteria by disintegrating 		
	- Destroy cancer cells.	- Dilates blood vessels.	their cell membrane.		
17	a). Vaccines are the substances used for artificial immunization.b). These act as antigens that stimulate to form antibodies, which retained in the body.			5x3	
18	, g				
	b). Females have two X chrom				
10		ce make the possibility of mal	e-female ratio 1:1.		
19	a). Action of genes / Protein sy		it is known as messenger RNA.		
20	From DNA, mRNA carries messages for protein synthesis to ribosomes. The sound waves – Tympanum vibrates – Ear ossicles – Oval window – Vibration of fluid				
	in the cochlea – Stimulation of hair cells in the Organ of corti – Impulses form – Auditory nerve				
21	- Cerebrum - Hearing is effected.				
21	a).Diphtheria. Corynebacterium diphtheriae.				
	b). The toxins produced by these bacteria destroy the cells in the mucus membrane.c). Treatment using antitoxins.				
	d). Vaccination, wearing mask.				
	,			1	
22	a). Inflammatory response.		nd site, WBCs reach the wound site		

through the walls of the capillaries.	
c). Neutrophil, Monocyte.	
a). A- Hypothalamus. C- Pituitory (posterior lobe).	
b). Vasopressin (Anti Diuretic hormone-ADH), Diabetes insipidus.	
c). Oxytocin, Facilitates child birth by stimulating the contraction of smooth muscles,	
Facilitates lactation.	(40)

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