## YUHUA SECONDARY SCHOOL Mark \_\_\_\_\_ Subject \_\_\_\_\_ Name Class \_\_\_\_\_\_ No. \_\_\_\_\_ Date \_\_\_\_\_ SIBO preparation ! Ba Enkaryotes prokaryotes - busually in bacteria, archaela, etc - usually in plants, animals, Fungi, profists - both books DNA, cytoplasm, ribosomes, - both base has DNA, cytoplasm, cell membrane pibosomes, cell membrane - no rucleus - has mucleus - unicellular organisms - Multicellular or unicellular organisms

	YUHUA SECONDARY SCHOOL	Mark
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	ClassNoDate	
	Tal bio elympiad	5 5 9
	de diff levels of biodiversity?	
	genetic species (cosystems	
	June 1900 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	highest biodin -> tropies	
	lowest biodia -> & north /south foles	
1-4-1	I tow does climate there affect biodiv?	
9		
	tem in . 1 temperature Will species	
	. melting of ice increase mater which an can flo	w and
	-kill & destroy habitats	
	. go to It can cause drought and will species	with the
-	lack of water	
		11
	toss of nich biodiversity? - loss of species tose lose biomedia	cines and
	yenetic diversity for food	
	is reserve how to act the food instant	
	some genetics are resistant to pests, climate change and	Ares viruses/
	disenses	
	rich biodiversity help us in at what - food, medicines	
	rich biodiversity help us in at what - food, medicines	and materials

## YUHUA SECONDARY SCHOOL Mark Name \_\_\_\_\_\_Subject \_\_\_\_\_ Class \_\_\_\_\_ No. \_\_\_\_ Date STBO 4 innate immune system molecules, organ cells people are born with that fights the harmful microogenisms internal immune system - Phagocytes -> engulf microorganisms · neutrophils - 'self dostruct' (basically puss) · macrophages - free types | fixed types (big enters') (portrol and engage) cuttached to fibers etc.) reals it with cytoplasmic extentions (can do more than once) natural killery cells · an kill own cells if they are infected Altan does it kill? · It releases an enzyme A How? and apoptosis occurs healthy cell contain major histocompatibility complex, MHC1 · unhealthy cell stops making MHC1

## **YUHUA SECONDARY SCHOOL**

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	Class	
	SJBO 4	
	Humaral Emmunity	
	- Adap fiz	
	- Adaptive immune system - molecules, cells, organs etc that pr	
	highly specific defences to protect the body from foreign ,	Particles.
	They remember specific pathogen main difference between AIS and IIs	^
	key w	ords
	- disputches antibodies - Nentralisation.	
		k binding sites
	Adaptive defences of viruses	
	- agglunia	
	- B lymphocytes will attach onto microorganisms	
	· able to distinguish healthy and infected cell or virus	
	(1)	
	when matured it has alot of protein fee receptors of	<u> </u>
	membrane - bound organisms (can freely roam and bind and	
	it will attach and bind and will multiply itself all ha	rization)
	instructions that are designed to fight that specific fl	COIL )
	a specific antibody (most are effector cells/fighter	CENT
	Adaptive : manual co on one	
	Adaptive immune response	
	- T- lymphoc tes (t-cells)	
	- I Grand - I Gr	2.
	· go after infected cells (causes inflammation, activ	We
	mucroprayes eget other t-pells ready)	
	helper/cytoxic t-cells (do the killing thru apoptos;	( 2
		-

helper t-cells - similar to B cells, it binds to a specific class 2 MMHC and antigen and the clone itself with some memory cells and mostly helper t-cells. & + regulatory +-cells Regulatory t-cells - inhibiting cytotrines that deactive other immune cells. Do activate the cells? - releases cytokines which will activate more t-cells which will in turn activate t-cytotoxic cells & Effector cells (active fighters)? - have alot of RER for high antibody production A professional Antigen presenting cells - some cells like phagocytes, natural killers wear parts of the micro-organism they killed Chappens both in IIS and AIS) - They can also be macrophyes, and dendritic cells, log b-cells (class 2 MHC) & All nacted nucleated cells have to class I MHC infected cells make unusul protein and it will put pieces of if is on its MHC