

Question number	Answer	Notes	Marks
1 (a) (i)	1. cannot reproduce without host;		
	2. do not move;		
	3. do not respire;		
	4. not respond to stimuli;		
	5. not grow / develop;		
	6. not excrete;		
	7. not feed;		
	8. do not control interna conditions;		2
(ii)	1. HI / AIDS;	allow any named virus or disease caused by virus	
	2. T V) / tobacco mosaic disease;	discuse caused by virus	
	3. influenza flu / cold / Ebola / eq;		
			1



(b)	1. n genetic material / DNA / RNA;	allow converse	
	2. not cognised by immune system / eq;		
	3. smal r;		
	4. al ys fatal;		
	5.viruses have protein coat;		
	6. ruses can be used as vectors;		2
			2

Total 5 marks



Question number	Answer				Notes	Marks	
2						Tick cross hybrid = 0	4
	Feature of organism	Туре	of organi	sm		_ 0	
	organism	Bacteria	Fungus	Virus			
	have a protein coat	(*)	*)	✓)			
	all are pathogens	×	*	√;			
	cell walls made of chitin	×	√	×;			
	contain DNA in a nucleus	×	√	×;			
	respire	√	√	×;			
				l_			Total 4
							Marks



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Question number	Answer	Notes	Marks
3 (a) (i)	Lactobacillus;	Allow approx.	1
(ii)	1	op omnig	1
(iii			1 1
(iv	mosquito,		1
(b) (i)	only reproduce in living cells / eq; protein coat; only DNA / only RNA / one type of nucleic acid / eq; smaller; no organelles; no cytoplasm; no mitochondria; do not move; do not respire; do not feed; no sensitivity; do not grow; do not excrete / produce waste;	ignore cell wall / cell membrane / chloroplast / nucleus / nucleiod / multicellular	max 3
(ii)	HIV / eq; human / eq; AIDS / effects immune system / eq;	if named disease wrong still allow effect ignore organs	3

TOTAL 10 MARKS



Question number	Answer	Notes	Marks
4 (a)	 do not respire; cannot reproduce without (host) cell / reproduce in (host) cell / can only reproduce within an organism; do not move; do not sense; do not excrete; do not grow; do not feed / do not need nutrition; do not control their internal conditions; are not cellular; 		2 max
(b)	HIV / TMV / influenza / Ebola / herpes / swine flu / bird flu / H15;	Allow named virus disease Ignore AIDS	1



1. bacteria are bigger / viruses are smaller;	Ignore cellular structure	1 max
2. cell membrane in bacterium;	alone	
3. cell wall in bacteria / protein coat/capsid in virus / envelope in virus;	Ignore nucleus / shape	
4. flagellum in bacteria / eq;		
5. bacteria have plasmids / nucleoid;		
6. bacteria have cytoplasm;		

Total 4 marks



Question number	Answer	Answer Notes		
5 (a) (i)	fungi / bacteria / Penicillium;	allow named correct organism	1	
(ii)	bacteria;		1	
(b)	 mutation; variation; gene / allele / DNA; survive / not killed / eq; resistant; reproduce / multiply / replicate / breed / produce offspring / eq; ass on gene / allele / DNA; 	allow resist pass on resistance = 1 for resistance MP 5 only pass on gene = 2 = Mp3 and Mp7	5	

(Total = 7 marks)



Question number	Answer	Notes	Marks
6	<pre>1 variation / variety; 2 rare / random; 3 mutation / mutant; 4 gene / allele / DNA / eq; 5 survive / not killed / live / eq; 6 reproduce / breed / have offspring / eq; 7 pass on (gene) / eq;</pre> 8 many generations / repeated over time / eq;	allow converse for non-resistant ignore pass on phenotype / characteristic	Max 5
		Total	5

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Question number		Notes	Marks				
number 7 (a)			oup Example human / eq; Mucor / eq; Lactobacillus / Pneumococcus / Salmonella / eq; Amoeba / Chlorella / Plasmodium / seaweed /			allow mammals / birds / eq allow mushroom / yeast / mould toadstool / ignore named disease / athlete's foot	4
(b) Group Are Cells Cells contain have cell nucleus chloroplasts walls fungi (all) none (all); bacteria none (some) (all); protoctists (none all (some) some;					ignore malaria	3	



Question number	Answer		Marks
7 (c) (i) (ii)	smaller; protein coat / no cell wall / eq; no cell membrane; no cytoplasm / no organelles / no plasmids / no ribosome / eq; no flagellum; tobacco mosaic / AIDS / influenza / any correct flu / cold / measles / eq;	ignore reference to shape and reproduction ignore nucleus / Golgi / mitochondria / eq allow converse ignore HIV	1
		Total	9



Question number	An	swer		Notes	Marks
8 (a)	Feature		Animals	4 marks all correct	4
	can move from place to place	(X)	(√)	3 marks for 6 or 7 2 marks for 4 or	
	can carry out photosynthesis	\checkmark	X ;	5 1 marks for 2 or 3	
	are multicellular	\checkmark	√;	0 marks for 0 or 1	
	have cells with cell walls	\checkmark	X;	blank squares = wrong	
	store carbohydrate as glycogen	Х	√;	tick cross combined = wrong	
				Wrong	
(b)	fungi; bacteria / prokar; protoctists / protoviruses;			allow singular or plural ignore parasites / microorganisms / specific names eg cholera / amoeba	Max 2

Total 6 marks



Question number	Answer	Marks
9 (a)	pressur vena cava; ventricle; pulmonary; artery; capillaries; bacteria;	7

Total 7 Marks



Question number	Answer			Notes	Marks
10(a)	 iodine; bl / black / blue black = starch; Benedict' / eq; heat / se water bath / eq; r / orange / yellow / green = glucose; 			if iodine for glucose goes blue black = 0 only award Mp1 and Mp3 if linked to correct test heat must be linked to Benedict's	4 max
(b)	Group animals plants fungi	Example from the group (maize) mucor / yeast / mushroom / mould / eq;	Molecule used to store carbohydrate glycogen; starch / sucrose; glycogen;	Ignore in plants sugar / glucose / fructose Allow Fomes formentarius / eq	4