Question number	Answer					Notes	Marks
1	Structure	Structure Organism				If no X s and all ✓ in	3
		bacteria	fungi	viruses		correct places allow Max 2	
	cell wall	√	√	* ;			
	nucleus	×	√	* ;			
	chloroplast	(✓)	×	* ;			

Total 3 marks

Question number	Answer					Notes	Marks	
2 (a)	Group Fe re				one mark for each			
		Cell wall	Plasmid	Cytoplasm	Nucleus	correct column hybrid cross tick = 0		
	bacteria	√	√	(✓)	×	empty box = 0		
	fungi	√ ;	x ;	✓	(✓)			
	protoctists	(*)	*)	✓;	√ ;		4	
(b) ()	virus / eq;					allow named virus allow prion allow nematodes allow helminths	1	
(ii)	malaria / dys toxoplasmos		/ sleeping	sickness / gia	rdiasis /		1	

Total 6 marks

Question number	Answer	Notes	Marks
3 (a)	E;		
	C;		2
(b)	1. can be used in the production of beer;	3 ticks max 1 4 ticks or more = 0	
	2. cell wall is made of chitin;		2

Question number	Answer	Notes	Marks	
4	respiration respond to the surroundings excretion taking in of food reproduction increase in number of cells growth release of energy in cells nutrition removal of metabolic waste	5 = 4 4 = 3 3 or 2 = 2 1 = 1	4	

Total 4 marks

Question number		Notes	Marks			
5 (a)	Group bacteria fungi viruses	Can carry out photosynthesis	Have a cell wall	Can be pathogenic	hybrid cross tick = 0 blank = 0 8 = 4	4
					7/6 = 3 5/4 = 2 3/2 = 1 1/0 = 0	
(b)	Characteristic Example of this process they require nutrition eating food					
	carbohy		releasing energy fr carbohydrate some animals can			4
	they control their internal conditions		blood glucose / blood pressure /body temperature / sweating / osmoregulation / eq;			'
	they grow	-	increase of the population foxes cells divide / inc size / get bigger height / eq;	rease in mass /		

Question number	Answer		Marks
5 (c)	receptor / nerve ending; sensory neurone / sensory nerve; impulse / message / signal; CNS / spinal cord / grey matter; synapse; relay neurone / relay nerve; motor neurone; muscle / effector; contract;	sensory or motor not in correct order = 0 ignore brain allow intermediate / association;	5
		Total	13