Biology 2

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Que	stion								
Number									
FT	FT HT		Sub-section Mark		Mark	Answer	Accept	Neutral answer	Do not accept
1						A Cell wall	A: cellulose wall		
						B Chloroplast			
		(a)			2	C Nucleus			
			'		2	3 correct = 2 marks			
						2 correct = 1 mark			
						0/1 correct = 0 marks			
						1 yeast			Letters
						2 alga			instead of
			ii		2	3 bacteria/ alga			names
			"		_	3 correct = 2 marks			
						2 correct = 1 mark			
						0/1 correct = 0 marks			
		(b)	i		1	all organisms consist of one or more living cells;			
			'		'				
						A virus is not a cell;	has genes and		No nucleus/ it
							protein coat only /		requires a
							no cytoplasm/		host
			ii		1		no cell		
							membrane/		
							only reproduces		
							inside <u>cell</u>		
						light microscopes and electron microscopes;	laser imaging as		
			iii		1	(in order)	alternative for		
							light microscope		
		Tota	al Ma	ark	7				

Question Number										
F	Т	HT	Sub-	sect	ion	Mark	Answer	Accept	Neutral answer	Do not accept
2	?		(a)	i		1	Double helix;			
				ii		2	T,G,C 3 correct = 2 marks 2 correct = 1 mark 0/1 correct = 0 marks			
			(b)			1	Proteins and amino acids;			
			Tota	al Ma	ark	4				

	stion nber										
FT	HT	Sub-	Sub-section		Sub-section Mark		Mark	Answer	Accept	Neutral answer	Do not accept
3		(a)			4	Cells; Oxygen; Water; Enzymes;					
		(b)			2	carbon dioxide; (Lime water)turns {cloudy/ milky/ white};	CO ₂ cream		CO ²		
		Tota	l Ma	rk	6						

	stion nber								
FT	HT	Sub-	sect	ion	Mark	Answer	Accept	Neutral answer	Do not accept
4		(a)			1	Honey (bee) and bumble (bee);			
		(b)	i		1	{Loss of/less} nectar/ food (from wild flowers)/ {Loss of/less} nest sites/ {Loss of/less} habitat;			Fewer wild flowers/ wild flowers eaten by other animals Loss of space
			ii		2	480 000 and 180 000 OR 5 x 60 000; = 300 000; Correct answer = 2 marks			percentages
			iii		1	honey bee pollinates {food plants/ veg/ fruit}/ honey bee produces {food/ honey};			
		(c)			2	(loss of solitary bees) results in loss of {a number of/ many/ 260} species; (no pollination) – loss of species of wild flowers;			
			Mar	k	7			<u> </u>	•

Ques								
FT	HT	Sub	-sectio	n Mark	Answer	Accept	Neutral answer	Do not accept
5		(a)	i	2	paralyse cilia/ cilia unable move; mucus becomes {clogged/ dried}/ mucus builds up/ mucus thicker;	Mucus production increases	cilia {harmed/ don't work}/ mucus increases	cilia killed
			ii	1	tar;			
		(b)	i	1 2 1	suitable scale, correctly labelled; plotting must start at <i>y</i> axis all plots correct (½ small square tolerance);; not extrapolated (all correct = 2 marks, 1 error = 1 mark, >1 error = 0 marks) line quality; drawn with ruler			
			ii	2	Increase in number of cigarettes smoked increases <u>number</u> of deaths (from lung cancer); Small increase to <u>20</u> then a sharp increase;			
			iii	1	60;	Ecf from graph		
			iv	1	Some lung cancer deaths for 0 cigarettes/ some people who do not smoke die from lung cancer;			
		(c)		1	Reference to {dangers/ harm} of {passive smoking/ second hand smoke /secondary smoking};	Passive smoking makes people ill		second hand smoke affects people
		Tota	l Mark	12		<u>.</u>		

Biology 2 - Common questions

	stion nber									
FT	HT	Sub-	Sub-section		Mark		Answer	Accept	Neutral answer	Do not accept
6	1	(a)			2	Water; Oxygen;		H ₂ O O ₂	Sunlight or Chlorophyll on arrow	H2O O2
		(b)	İ		2	All correct = 2 marks 1 error = 1 mark > 1 error = 0 marks Apparatus	Presence or absence of starch ✓ or ×			
						А	×			
						В	✓			
						С	×			
						D	×			
			ii	I	1	B and C;				
				П	1	A and B;				
		Total	Ma	rk	6					

	stion nber							
FT	HT		Sub- ection	Mark	Answer		Neutral	Do not
7	2	(a)	i	2	both substrate molecules having entered the enzyme; an attempt to make them connect;		answer	accept
			ii	1	Lock and Key;		Enzyme substrate complex	
			iii	2	(Boiling) alters the shape of the {enzyme/active site}/ denatures enzyme; so the molecules do not <u>fit</u> into enzyme/ active site;			
		(b)		3	1 mark for each correct row;;; O O O O O O O O O O O O O O O O O			
		Tota	l Mark	8			1	

	stion nber								
FT	HT	Sub-	-sect	ion	Mark	Mark Answer	Accept	Neutral answer	Do not accept
8	3	(a)			1	Bronchiole;	bronchioles		
	1	(b)	i		1	15;			
			ii		2	3 – 0.6 = 2.4 litres/ l;; [NB unit required for 2 marks] Correct readings but incorrect answer = 1 mark 2.4 but no units = 1 mark No mark for correct unit only	L for litres		
		Tota	l Ma	rk	4				

Ques	stion									
Num	ber									
FT	HT	Mark	Answer							
9	4	6 QWC	Indicative content: use of disinfectant to wash both sets of peas (fill) a Thermos flask with these living peas ref to dead peas acting as control same {mass/ volume/ number} of peas should be used in both flasks place a thermometer into the peas place/ put cotton wool into the neck of the flask record temperature at {regular intervals/ every hour/ every day/ stated times} compare temperatures in both flasks							
			5-6 marks The candidate constructs an articulate, integrated account correctly linking relevant points, such as those in the indicative content, which shows sequential reasoning. The answer fully addresses the question with no irrelevant inclusions or significant omissions. The candidate uses appropriate scientific terminology and accurate spelling, punctuation and grammar.							
			3-4 marks The candidate constructs an account correctly linking some relevant points, such as those in the indicative content, showing some reasoning. The answer addresses the question with some omissions. The candidate uses mainly appropriate scientific terminology and some accurate spelling, punctuation and grammar.							
			1-2 marks The candidate makes some relevant points, such as those in the indicative content, showing limited reasoning. The answer addresses the question with significant omissions. The candidate uses limited scientific terminology and inaccuracies in spelling, punctuation and grammar.							
Total	Monte	6	0 marks The candidate does not make any attempt or give a relevant answer worthy of credit.							
Total	IVIAIK	Ü	\mathbf{I}							