

Commentary on candidate evidence

The candidate evidence has achieved the following marks for each question.

Candidate 4

Question	Mark available	Mark awarded	Comments
1(a)(i)	1	1	The mark was awarded as the idea of 'exit ... into the cell' did not negate the otherwise correct response.
1(a)(ii)	1	1	
1(b)(i)	1	1	
1(b)(ii)	1	0	The mark was not awarded as the candidate refers to energy being produced. The response also does not indicate that these cell types have high energy requirements.
2(a)	1	1	
2(b)(i)	1	0	
2(b)(ii)	1	0	
2(c)	1	1	
3(a)	1	1	
3(b)	1	0	
3(c)	1	1	
3(d)	1	0	

Question	Mark available	Mark awarded	Comments
4(a)(i)	2	2	
4(a)(ii)	1	1	
4(a)(iii)	1	0	
4(b)(i)	2	1	<p>The first mark was awarded for the scale and label.</p> <p>The second mark was not awarded as the line drawn between 50 and 60 minutes is above the grid line.</p>
4(b)(ii)	2	1	<p>The first mark was awarded for a correct prediction.</p> <p>The second mark was not awarded as there is no mention of enzyme activity.</p>
5(a)	1	1	
5(b)	1	1	
5(c)	1	0	
5(d)	2	0	<p>No marks were awarded as it is not clear which cell type is engulfing the pathogens. It implies that both cell types do this.</p>
5(e)	1	1	
6(a)	1	1	
6(b)	1	1	

Question	Mark available	Mark awarded	Comments
6(c)	4	0	No marks were awarded as the biology given is either incorrect or irrelevant.
7(a)(i)	1	0	
7(a)(ii)	1	0	
7(b)(i)	1	1	
7(b)(ii)	1	1	
8(a)	2	1	
8(b)	1	0	
8(c)	1	0	
9(a)	1	1	
9(b)	1	1	
9(c)	2	1	1 mark was awarded for the first statement. The mark was not awarded for the second statement as the antibody concentration began to increase immediately after both injections making this statement incorrect.
9(d)	1	1	
10(a)	1	1	
10(b)	1	1	
10(c)	1	1	The mark was awarded as 'measure' could relate to the frequency or intensity of

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			exercise and 'results' is equivalent to the record of their own exercise.
10(d)	1	0	The mark was not awarded as having different ages would introduce another variable to the study.
11(a)(i)	1	1	
11(a)(ii)	1	1	
11(a)(iii)	1	1	
11(b)(i)	1	1	
11(b)(ii)	1	1	
12(a)	1	1	
12(b)	1	0	The mark was not awarded as they would also need to mention taking moisture readings at each site.
12(c)(i)	1	0	
12(c)(ii)	1	1	
12(d)(i)	1	1	
12(d)(ii)	1	1	
13(a)(i)	1	0	The mark was not awarded as two boxes were ticked.
13(a)(ii)	1	0	

Question	Mark available	Mark awarded	Comments
13(a)(iii)	1	0	
13(a)(iv)	1	0	
13(b)	1	1	
14(a)(i)	1	1	
14(a)(ii)	1	1	
14(b)(i)	1	1	
14(b)(ii)	1	1	
14(b)(iii)	1	1	
15(a)	1	0	
15(b)	4	3	<p>3 marks were awarded for the following:</p> <p>Point 1 – the plasmid being extracted from the bacterial cell.</p> <p>Point 2 – the required gene being inserted into the bacterial plasmid.</p> <p>Point 3 – although the candidate has stated ‘back into’, the use of the term ‘host’ makes it clear that they are not referring to the original bacterial cell.</p> <p>The mark was not awarded for the following:</p>

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			The use of enzymes in the process as this is described incorrectly in point 1.
Total	75	45	