

Commentary on candidate evidence

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

Candidate 1

Question	Mark available	Mark awarded	Comments
1(a)	2	2	
1(b)	1	0	
2(a)	1	0	No mark was awarded as the candidate has only provided a description of osmosis. They have not explained why this is a passive process.
2(b)	1	1	
2(c)	1	0	
2(d)	2	0	The first mark was not awarded as the candidate has incorrectly stated that animal cells have a cell wall. The second mark was not awarded as there is no mention of the role of cell wall or its absence in the cells in question.
3(a)(i)	1	1	
3(a)(ii)	1	0	The candidate has given two responses. 'Amino acids' is incorrect and 'bases' is insufficient. There is no mention of complementary base pairing.
3(b)	1	1	

Question	Mark available	Mark awarded	Comments
4(a)	1	1	The mark was awarded. Although the spelling is incorrect, when it is sounded out, the correct term is recognisable. (General marking principle (k)).
4(b)	3	1	1 mark was awarded for the following: Point 1 – ‘each enzyme has its own specific substrate’.
5(a)	2	0	
5(b)	1	0	
6(a)(i)	1	1	
6(a)(ii)	1	1	
6(b)	2	1	1 mark was awarded. Although not mentioned in the marking instructions, ‘light intensity’ is an unacceptable response as there would be no need to control it in this experiment.
6(c)	1	0	No mark was awarded as although the optimum (1.5) is given, both of the other values are below this.
7	4	1	1 mark was awarded for the following: Point 2 – ‘spindle fibres then pull’. Marks were not awarded for the following:

Question	Mark available	Mark awarded	Comments
			Point 1 – chromosomes do not 'join' at the equator. Point 4 – 'causing the chromosomes to split' negates the idea of them moving to opposite ends of the cell.
8(a)	1	1	
8(b)(i)	1	0	
8(b)(ii)	1	0	
9(a)	1	0	
9(b)	2	1	The first mark was not awarded as the column headings were not suitable. There was also no mention of adults/people. The second mark was awarded as the correct values were included in the table and their context could be determined (in the absence of suitable headings).
9(c)	1	0	
9(d)	1	1	
9(e)	1	1	The mark was awarded as 'medical history' would include any health issues.
10(a)	2	1	1 mark was awarded as one correct statement was chosen.
10(b)(i)	2	0	No marks were awarded as the response given does not describe the relationship.

Question	Mark available	Mark awarded	Comments
10(b)(ii)	1	1	
10(c)(i)	1	0	No mark was awarded as the response given is identified as being 'not acceptable' in the 'additional guidance' column in the marking instructions.
10(c)(ii)	1	1	
11(a)(i)	1	0	
11(a)(ii)	2	0	
11(a)(iii)	2	2	2 marks were awarded. Although the candidate did not give the correct genotypes in part (ii), they were still able to access the marks for this question.
11(b)	1	1	
12(a)(i)	1	0	
12(a)(ii)	1	0	
12(b)	1	0	
13(a)(i)	1	1	
13(a)(ii)	1	0	No mark was awarded as it not clear whether the candidate is discussing the seeds sown or the seedlings surviving.
13(a)(iii)	1	0	The mark was not awarded as the inclusion of 'fighting' negates the otherwise correct response.
13(b)	1	1	

Question	Mark available	Mark awarded	Comments
13(c)	1	1	<p>The mark was awarded. Although 'sun' on its own would be incorrect, in this instance it does not negate the otherwise correct response.</p> <p>If more than one response is provided and one is incorrect, the marker must decide if it negates the correct response or not. (General marking principle (i)).</p>
14(a)(i)	1	1	
14(a)(ii)1	1	1	
14(a)(ii)2	1	1	
14(a)(iii)	1	0	No mark was awarded as the addition of 'different areas' is incorrect and therefore negates the otherwise correct response.
14(b)(i)	1	0	
14(b)(ii)	1	1	
15(a)	2	2	
15(b)	1	1	
15(c)	1	1	
15(d)	2	1	
16(a)(i)	1	1	
16(a)(ii)	1	0	
16(a)(iii)	1	0	

Question	Mark available	Mark awarded	Comments
16(b)(i)	1	1	
16(b)(ii)	1	0	
16(b)(iii)	1	0	No mark was awarded as the candidate has not linked the drop in oxygen concentration to the bacteria.
Total	75	35	