

Commentary on candidate evidence

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

Candidate 2

Question	Mark available	Mark awarded	Comments
1(a)	2	2	
1(b)	1	1	
2(a)	1	1	The mark was awarded as the description of osmosis does not negate the otherwise correct response.
2(b)	1	1	
2(c)	1	1	
2(d)	2	2	The first mark was awarded as the candidate has stated that animal cells do not have a cell wall. The second mark was also awarded as they have explained that a cell wall would keep the cell from bursting.
3(a)(i)	1	1	
3(a)(ii)	1	1	The mark was awarded as a correct description of complementary base pairing was given.
3(b)	1	1	

Question	Mark available	Mark awarded	Comments
4(a)	1	1	
4(b)	3	1	<p>1 mark was awarded for the following:</p> <p>Point 3 – ‘two products are produced’.</p> <p>A mark was not awarded for the following:</p> <p>Point 1 – ‘enzyme and substrate are put together’ as this is not equivalent to them joining/fitting or binding together.</p>
5(a)	2	0	
5(b)	1	0	The mark was not awarded as the candidate provided a description rather than a named process.
6(a)(i)	1	1	
6(a)(ii)	1	1	
6(b)	2	2	
6(c)	1	1	The mark was awarded as the candidate has correctly provided three values including a value below and above the identified optimum pH (1.5).

Question	Mark available	Mark awarded	Comments
7	4	2	<p>2 marks were awarded for the following:</p> <p>Point 1 – ‘chromosomes line up at equator’.</p> <p>Point 2 – ‘spindle fibres form’.</p> <p>Marks were not awarded for the following:</p> <p>Point 3 – ‘pull the chromosomes apart’ as it should be chromatids.</p> <p>Point 6 – ‘cell splits’ is not equivalent to ‘cytoplasm splits’.</p>
8(a)	1	1	
8(b)(i)	1	1	
8(b)(ii)	1	1	
9(a)	1	0	The mark was not awarded as the candidate has not included genetic factors in their response.
9(b)	2	2	2 marks were awarded. Although the information is given in rows rather than columns, and ‘people/adults’ is included after each value, the headings and values are correct, and the table can be understood.
9(c)	1	1	

Question	Mark available	Mark awarded	Comments
9(d)	1	0	The mark was not awarded as stating that the study was carried out 'many times', is incorrect. It was carried out once in each country.
9(e)	1	0	
10(a)	2	2	
10(b)(i)	2	1	The first mark was awarded as a correct description of relationship 'higher the heart rate the more blood pumped but when the heart rate gets too high the volume decreases' was given. The second mark was not awarded as the point of change has not been identified
10(b)(ii)	1	1	
10(c)(i)	1	1	The mark was awarded as 'concentration' is in the stem of the question therefore it is clear what the candidate is referring to.
10(c)(ii)	1	1	
11(a)(i)	1	1	
11(a)(ii)	2	2	
11(a)(iii)	2	2	
11(b)	1	1	
12(a)(i)	1	0	

Question	Mark available	Mark awarded	Comments
12(a)(ii)	1	0	The mark was not awarded as there is no reference to the light being absorbed/captured/trapped.
12(b)	1	0	The mark was not awarded as only a description of the function is given. No structural feature is identified.
13(a)(i)	1	1	
13(a)(ii)	1	0	The mark was not awarded as the candidate describes the percentage of seeds surviving not seedlings.
13(a)(iii)	1	0	The mark was not awarded as the inclusion of 'fighting' is incorrect and negates the otherwise correct response.
13(b)	1	1	
13(c)	1	1	The mark was awarded as the additional information is correct and therefore does not negate the otherwise correct response.
14(a)(i)	1	1	
14(a)(ii)1	1	1	
14(a)(ii)2	1	1	
14(a)(iii)	1	0	The mark was not awarded as the improvement suggested is not appropriate.
14(b)(i)	1	0	
14(b)(ii)	1	1	
15(a)	2	1	The first mark was awarded. Although there is no zero on the x-axis scale there are

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			<p>three values that allow a linear scale to be established, and the label and units are also correct.</p> <p>The second mark was not awarded as the line drawn does not accurately join the points.</p>
15(b)	1	1	
15(c)	1	1	
15(d)	2	2	
16(a)(i)	1	1	
16(a)(ii)	1	0	
16(a)(iii)	1	0	
16(b)(i)	1	1	
16(b)(ii)	1	0	The mark was not awarded as the candidate has not referred to an increase in available food for the bacteria.
16(b)(iii)	1	0	The mark was not awarded as the response suggests that all of the oxygen is used up by the bacteria.
Total	75	52	