

Mark scheme - Nucleotides and Nucleic Acids - MCQ

Question	Answer/Indicative content	Marks	Guidance
1	A	1	
	Total	1	
2	C ✓	1	
	Total	1	
3	D	1	
	Total	1	
4	D	1	
	Total	1	
5	B	1	
	Total	1	
6	A ✓	1	
	Total	1	
7	C ✓	1	ALLOW A Examiner's Comments Almost all candidates achieved this mark.
	Total	1	
8	B ✓	1	
	Total	1	
9	D ✓	1	ALLOW A Examiner's Comments Due to the action of DNA polymerase, option D provided the correct response for this question. As the two strands of DNA separate during replication the distance between the strands is not always the same (option B). Option A was not on the specification but it was decided to credit candidates who had opted for this response based on the function of RNA primers during replication of DNA.
	Total	1	

10			D ✓	1	Examiner's Comments D, the correct response was selected by many candidates. A number of candidates selected A, thinking about the bond between two consecutive nucleotides in a single chain.
			Total	1	
11			A ✓	1 (AO2.1)	Examiner's Comments Many candidates didn't identify the correct answer (A) and the incorrect letters were evenly distributed. However, a basic knowledge of DNA and RNA structure ought to have allowed candidates to quickly discount B and D as being DNA rather than RNA.
			Total	0	
12			B	1 (AO2.6)	
			Total	1	
13			C ✓	1 AO 2.5	
			Total	1	
14			B ✓	1	Examiner's Comments This question was challenging. Those who answered incorrectly predominantly suggested A.
			Total	1	
15			C ✓	1	Examiner's Comments D was a common incorrect answer provided by a significant proportion of candidates.
			Total	1	
16			A ✓	1	Examiner's Comments This was the most challenging question for candidates, with the fewest number of correct answers. There was no pattern in the incorrect answers supplied.

			Total	1	
17			A ✓	1	Examiner's Comments Most candidates answered this correctly. The most common incorrect answer was not, as anticipated, the distractor C but D .
			Total	1	
18			B	1	
			Total	1	
19			A	1	
			Total	1	