## Mark scheme - Nucleotides and Nucleic Acids - MCQ

Qu	Questio n		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			В	1	
			Total	1	
6			A✓	1	
			Total	1	
7			с	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	В	1 (AO2.6)	
	Total	1	
13	C√	1 AO 2.5	
	Total	1	
14	В√	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 <b>√</b>	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 <b>C</b> but <b>D</b> .
		Total	1	
18		В	1	
		Total	1	
19		А	1	
		Total	1	