Mark scheme - Nucleotides and Nucleic Acids

- MCQ

|  | Answer/Indicative content | Marks | Guidance |
| :---: | :---: | :---: | :---: |
| 1 | A | 1 |  |
|  | Total | 1 |  |
| 2 | C $\checkmark$ | 1 |  |
|  | Total | 1 |  |
| 3 | D | 1 |  |
|  | Total | 1 |  |
| 4 | D | 1 |  |
|  | Total | 1 |  |
| 5 | B | 1 |  |
|  | Total | 1 |  |
| 6 | A $\sqrt{ }$ | 1 |  |
|  | Total | 1 |  |
| 7 | C 1 | 1 | ALLOW A <br> Examiner's Comments <br> Almost all candidates achieved this mark. |
|  | Total | 1 |  |
| 8 | B $\checkmark$ | 1 |  |
|  | Total | 1 |  |
| 9 | D $\checkmark$ | 1 | ALLOW A <br> Examiner's Comments <br> 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 |  |  |  |  |
| :--- | :--- | :--- | :---: | :--- |


|  |  | Total | 1 |  |
| :--- | :--- | :--- | :---: | :--- |
| 17 |  |  | A $V$ | $\mathbf{1}$ |
|  |  | Total | Most candidates answered this correctly. The <br> most common incorrect answer was not, as <br> anticipated, the distractor $\mathbf{C}$ but $\mathbf{D}$. |  |
| 18 |  | B | $\mathbf{1}$ |  |
|  |  | Total | 1 |  |
| 19 |  | A | 1 |  |
|  |  | Total | 1 |  |

