

Mark scheme - Communicable diseases, disease prevention and the immune system - MCQ

| Question | Answer/Indicative content | Marks | Guidance |
|----------|---------------------------|--------------|---|
| 1 | A ✓ | 1 | |
| | Total | 1 | |
| 2 | C | 1 | |
| | Total | 1 | |
| 3 | B | 1 | |
| | Total | 1 | |
| 4 | C ✓ | 1 | |
| | Total | 1 | |
| 5 | D ✓ | 1 | |
| | Total | 1 | |
| 6 | B ✓ | 1 | |
| | Total | 1 | |
| 7 | B \} | 1 | Examiner's Comments Two thirds of candidates achieved this mark, recognising that none of the cells in the photograph was a lymphocyte. |
| | Total | 1 | |
| 8 | B \} | 1 | ALLOW C Examiner's Comments Almost all candidates achieved this mark. |
| | Total | 1 | |
| 9 | B \} | 1 | Examiner's Comments A little over a third of candidates achieved this mark. |
| | Total | 1 | |
| 10 | B ✓ | 1 (AO1.2) | Examiner's Comments Most responses were correct. The most |

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| | | | | | common misconception was that antibiotic resistance is an example of genetic drift. |
| | | | Total | 1 | |
| 1 1 | | | B ✓ | 1 (AO1.1) | <u>Examiner's Comments</u> This was correctly answered by most. |
| | | | Total | 1 | |
| 1 2 | | | A ✓ | 1 (AO1.1) | <u>Examiner's Comments</u> This was correctly answered on most scripts but a sizeable minority put B. |
| | | | Total | 1 | |
| 1 3 | | | A ✓ | 1 | <u>Examiner's Comments</u> Most candidates were able to select the correct response, A. |
| | | | Total | 1 | |
| 1 4 | | | B ✓ | 1 | <u>Examiner's Comments</u> B was the correct response, but many selected C. Candidates do need to interpret the question correctly and the word 'increase' tells them that there must be a subtraction involved before the percentage calculation. Response C was the correct response if the question had been 'calculate the number of cases in the year 2000 as a percentage of the number of cases in 1995'. |
| | | | Total | 1 | |
| 1 5 | | | D ✓ | 1 | <u>Examiner's Comments</u> The correct response was D. Many of the candidates who selected the incorrect response selected A thinking that mosquitoes were the malarial parasite. |
| | | | Total | 1 | |
| 1 6 | | | C ✓ | 1 (AO2.1) | |
| | | | Total | 1 | |

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|----|--|--------------|--------------|---|
| 17 | | C ✓ | 1 (AO1.1) | <u>Examiner's Comments</u> Only a few candidates selected the correct answer (C) This might be due to some candidates not noticing the emboldened word or the meaning of the word 'immune' might have been overlooked. |
| | | Total | 0 | |
| 18 | | A ✓ | 1 (AO2.5) | |
| | | Total | 0 | |
| 19 | | B | 1 (AO2.5) | |
| | | Total | 1 | |
| 20 | | B ✓ | 1(AO2.1) | |
| | | Total | 1 | |
| 21 | | A ✓ | 1(AO1.1) | |
| | | Total | 1 | |
| 22 | | A ✓ | 1(AO1.2) | |
| | | Total | 1 | |
| 23 | | B ✓ | 1(AO1.2) | |
| | | Total | 1 | |
| 24 | | A ✓ | 1 AO1.1 | |
| | | Total | 1 | |
| 25 | | B ✓ | 1 AO2.3 | |
| | | Total | 1 | |
| 26 | | D ✓ | 1 AO1.1 | |
| | | Total | 1 | |

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| 27 | | D ✓ | 1 AO1.1 | |
| | | Total | 1 | |
| 28 | | A ✓ | 1 AO1.1 | |
| | | Total | 1 | |
| 29 | | A ✓ | 1 (AO2.6) | |
| | | Total | 1 | |
| 30 | | A ✓ | 1 (AO2.6) | |
| | | Total | 1 | |
| 31 | | B ✓ | 1 | <p><u>Examiner's Comments</u></p> <p>The key to answering this question correctly was spotting that the question asks for a chemical defence rather than a barrier type response. Those candidates who read the question carefully could provide the correct response.</p> |
| | | Total | 1 | |
| 32 | | A ✓ | 1 | <p><u>Examiner's Comments</u></p> <p>Candidates needed to be aware of the difference between the primary and secondary immune responses. The secondary immune response is more rapid and more vigorous because of the presence of memory cells.</p> |
| | | Total | 1 | |
| 33 | | D ✓ | 1 | <p><u>Examiner's Comments</u></p> <p>This question tested candidate knowledge about types of immunity. It is clear that many candidates have not focused on what is meant by active immunity. Active immunity is</p> |

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| | | | | | when the specific immune system is activated and produces its own antibodies. Many candidates gave B as an incorrect response. |
| | | | Total | 1 | |
| 3 4 | | | C ✓ | 1 | Examiner's Comments Candidates found this difficult which was surprising considering that it is a clear learning outcome and that the question set out a scenario that would definitively indicate a particular type of immunity provided. |
| | | | Total | 1 | |
| 3 5 | | | A ✓ | 1 | Examiner's Comments Given that this was a question requiring application of candidates' knowledge, it was one of the harder questions. B was rarely seen as an incorrect suggestion. |
| | | | Total | 1 | |
| 3 6 | | | C ✓ | 1 | Examiner's Comments This was correctly answered by many candidates. |
| | | | Total | 1 | |
| 3 7 | | | D | 1 | |
| | | | Total | 1 | |
| 3 8 | | | B | 1 | |
| | | | Total | 1 | |
| 3 9 | | | D | 1 | |
| | | | Total | 1 | |
| 4 0 | | | C | 1 | |
| | | | Total | 1 | |