

Question Number	Answer	Additional guidance	Mark
<b>7(a)(i)</b>	<p>A - Metaphase I</p> <p>The only correct answer is A</p> <p><i>B is not correct because independent assortment does not occur in metaphase II</i></p> <p><i>C is not correct because independent assortment does not occur in telophase I</i></p> <p><i>D is not correct because independent assortment does not occur in telophase II</i></p>		<b>(1)</b>

Question Number	Answer	Additional guidance	Mark
<b>7(a)(ii)</b>	<p>C - Prophase I</p> <p>The only correct answer is C</p> <p><i>A is not correct because crossing over does not occur in metaphase I</i></p> <p><i>B is not correct because crossing over does not occur in metaphase II</i></p> <p><i>D is not correct because crossing over does not occur in prophase II</i></p>		<b>(1)</b>

Question Number	Answer	Additional guidance	Mark
<b>7(b)</b>	<p>An explanation that includes three of the following points:</p> <ul style="list-style-type: none"> <li>• (due to) linkage (1)</li> <li>• A and B are on same chromosome (1)</li> <li>• {genes/ alleles / AB / ab / 48%} are not separated due to crossing over / {AB / ab} are inherited together (1)</li> <li>• {Ab / aB / 2%} formed by crossing over (1)</li> </ul>	<p>ACCEPT 25% due to A and B on separate chromosomes</p> <p>ACCEPT the closer together two loci are the smaller the chance of separation (by recombination) / ORA</p> <p>ACCEPT {Ab / aB} are recombinants</p>	<b>(3)</b>