

Question Number	Answer	Mark
<b>7(a)</b>	<p><b>B</b> - Eukaryota</p> <p><i>The only correct answer is <b>B</b></i></p> <p><i><b>A</b> is incorrect because the electron micrograph has a nucleus and other membrane bound organelles so must be a eukaryote</i></p> <p><i><b>C</b> is incorrect because the electron micrograph has a nucleus and other membrane bound organelles so must be a eukaryote</i></p> <p><i><b>D</b> is incorrect because the electron micrograph has a nucleus and other membrane bound organelles so must be a eukaryote</i></p>	<b>(1)</b>

Question Number	Answer	Mark
<b>7(b)(i)</b>	<p><b>C</b> – humidity</p> <p><i>The only correct answer is <b>C</b></i></p> <p><i><b>A</b> is not correct because resistance to infection is a biotic factor</i></p> <p><i><b>B</b> is not correct because pathogens are biotic factors</i></p> <p><i><b>D</b> is not correct because ocean pH is an abiotic factor but not one relevant to plants and their pathogens</i></p>	<b>(1)</b>

Question Number	Answer	Mark
<b>7(b)(ii)</b>	<p><b>B</b> – global warming</p> <p><i>The only correct answer is <b>B</b></i></p> <p><i><b>A</b> is not correct because increase CO<sub>2</sub> to 1080 ppm does not decrease photosynthesis</i></p> <p><i><b>C</b> is not correct because increased CO<sub>2</sub> to 1080 ppm does not increase plant respiration</i></p> <p><i><b>D</b> is not correct because increased CO<sub>2</sub> to 1080 ppm does not cause ozone depletion</i></p>	<b>(1)</b>

Question Number	Answer	Additional Guidance	Mark
<b>7(b)(iii)</b>	<p>An explanation that makes reference to the following</p> <ul style="list-style-type: none"> <li>• carbon dioxide (is a greenhouse gas and) causes global warming (1)</li> <li>• a relevant description of a change in the distribution of ash trees (with increasing CO<sub>2</sub> concentrations) (1)</li> <li>• (because increased CO<sub>2</sub>) would result in a change in the range for <i>H. fraxineus</i> (1)</li> <li>• and ash trees will be found in regions without <i>H. fraxineus</i> (1)</li> <li>• change in range of { <i>H. fraxineus</i> / ash trees } linked to a relevant aspect of climate change (1)</li> </ul>	<p>e.g. an increase to 430 ppm leads to more ash trees in the east or an increase to 1080 ppm leads to more ash trees in the north</p> <p>e.g. temperature increase, change in humidity, change in rainfall patterns</p>	<b>(5)</b>