

Question Number	Answer	Additional guidance	Mark
<b>8(a)</b>	<p>An answer that includes at least one similarity and one difference:</p> <p>similarities:</p> <ul style="list-style-type: none"> <li>• both contain membrane bound organelles (1)</li> <li>• both contain a {cell membrane / cell wall} (1)</li> </ul> <p>max 2 differences:</p> <ul style="list-style-type: none"> <li>• plant cell wall is composed of cellulose whereas a fungal cell wall is composed of chitin (1)</li> <li>• fungal cells contain glycogen granules whereas plant cells contain {starch grains / amyloplasts} (1)</li> <li>• plant cells contain {chloroplasts / plasmodesmata / tonoplast} whereas fungal cells do not (1)</li> </ul>	<p>ACCEPT named organelle(s) e.g. nucleus, mitochondria, 80S ribosomes etc</p> <p>ACCEPT both contain DNA associated with histones (1)</p> <p>ACCEPT fungal cells contain lysosomes whereas plant cells do not / plant vacuole may be larger than fungal vacuole</p>	<b>(3)</b>

Question Number	Answer	Additional guidance	Mark
<b>8(b)(i)</b>	<p>An explanation that makes reference to four of the following points:</p> <ul style="list-style-type: none"> <li>• reduction in growth (1)</li> </ul> <p>and any three from:</p> <ul style="list-style-type: none"> <li>• due to reduced {cell division / mitosis} (1)</li> <li>• reduced gene expression will cause reduction in {enzyme/ protein} production (1)</li> <li>• reduced phospholipids which are needed for (growth of) {cell / organelle} membranes (in daughter cells) (1)</li> <li>• reduced transport of sucrose (around the plant) in the phloem / reduced sucrose available for other plant cells (1)</li> </ul>	<p>ACCEPT reduced DNA synthesis results in fewer cells in S phase / not enough DNA produced for mitosis to occur</p> <p>ACCEPT named enzyme e.g. DNA polymerase</p> <p>ACCEPT correct examples of sucrose use by plant e.g. reduced {respiration / ATP production}</p>	<b>(4)</b>