

Question Number	Answer	Additional Comments	Mark															
6(a)	<table><tr><th>Feature</th><th>Cellulose molecule</th><th>Cellulose microfibril</th></tr><tr><td>Alpha (α) glucose</td><td>x</td><td>x</td></tr><tr><td>1,4- glycosidic bonds</td><td>✓</td><td>✓</td></tr><tr><td>1,6- glycosidic bonds</td><td>x</td><td>x</td></tr><tr><td>Hydrogen bonds</td><td>x</td><td>✓</td></tr></table> <p>Any 2 correct for 1 mark ;;;;</p>	Feature	Cellulose molecule	Cellulose microfibril	Alpha (α) glucose	x	x	1,4- glycosidic bonds	✓	✓	1,6- glycosidic bonds	x	x	Hydrogen bonds	x	✓	No marks for blank spaces. No marks for hybrid x/✓	(4)
Feature	Cellulose molecule	Cellulose microfibril																
Alpha (α) glucose	x	x																
1,4- glycosidic bonds	✓	✓																
1,6- glycosidic bonds	x	x																
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6(b)	<p>1. Archaea ; 2. Bacteria ;</p>	<p>Either way around 1. ACCEPT Archaeobacter</p>	(2)

Question Number	Answer	Additional Comments	Mark
6(c)	<p>1. idea that organisms with { specific / particular / shared / common / similar / eq } { characteristics / features / traits / eq } are placed in a group ;</p> <p>2. detail of how characteristics assessed, e.g. observable characteristics, behavioural similarities, similarities in DNA, molecular phylogeny ;</p>		(2)

Question Number	Answer	Additional Comments	Mark
6(d)	<ol style="list-style-type: none"> <li>1. scientific findings published e.g. in a journal ;</li> <li>2. idea of presented at scientific conference / eq ;</li> <li>3. idea of peer review ;</li> <li>4. (other scientists) repeat experiments (to confirm or validate findings / test reliability of data) ;</li> </ol>	<p>IGNORE 'critically evaluated' as it is in the stem of the question</p> <p>3. 'peer reviewed journal' gains Mp1 as well</p> <p>4. must be an indication of further testing being carried out</p>	(3)