

Question Number	Answer	Mark
1(a)	<ol style="list-style-type: none"> 1. polysaccharide ; 2. unbranched / straight chain ; 3. {beta / β} glucose ; 4. (1-4) glycosidic bonds (between glucose molecules) ; 5. reference to intermolecular hydrogen bonds / eq ; 	max (3)

Question Number	Answer	Mark
1(b)	xylem / sclerenchyma ;	(1)

Question Number	Answer	Mark
1(c)	<ol style="list-style-type: none"> 1. reference to {decomposition / decay / putrefaction } (by microorganisms) ; 2. reference to respiration ; 3. releases carbon dioxide for photosynthesis / eq ; 4. methane released in anaerobic (conditions); 5. (methane) available as fuel / eq ; 	max (3)

Question Number	Answer	Mark
1(d)(i)	<p>Any one from:</p> <ol style="list-style-type: none"> 1. reference to {increased / eq} income / 2. in order to export fuel / 3. reference to more {jobs / eq} / 4. reduce imports of (fossil / bio) fuels / 5. reference to biofuels {renewable / sustainable} / 6. fossil fuels finite / eq / 7. {reduce use of / as alternative to} {fossil fuels / named e.g.} /reference to meeting carbon targets / eq / 8. reference to no loss of {farmland / eq} ; 	<p>max (1)</p>

Question Number	Answer	Mark
*1(d)(ii) QWC	<p>(QWC - Spelling of technical terms must be correct and the answer must be organised in a logical sequence)</p> <ol style="list-style-type: none"> 1. reference to (combustion of) biofuels releases carbon dioxide {recently / eq} removed from atmosphere / eq ; 2. (therefore) there is no (net) increase in carbon dioxide (in atmosphere) / eq ; 3. carbon dioxide is a greenhouse gas / eq ; 4. that {absorbs / traps / eq} {infra-red / heat / long-wave} (radiation reflected from Earth's surface) ; 5. reference to prevents {infra-red / heat / long-wave} {escaping / eq} into space ; 6. reference to (therefore) mean temperature of Earth's surface increases ; 7. idea that carbon in peat(land) was {trapped / eq} {a long time ago / eq} ; 8. idea of peatland clearance releases carbon dioxide ; 9. idea that there is a (net) gain of carbon dioxide (in the atmosphere) ; 10. idea that removal of plants (during clearance) reduces photosynthesis ; 11. reference to carbon dioxide released from (clearance) machinery ; 	<p>max (5)</p>