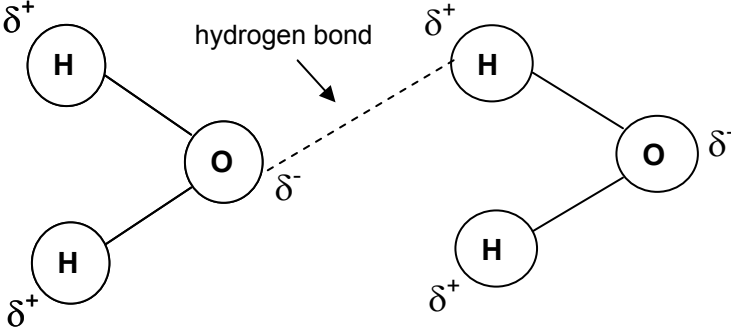


# F212 Molecules, Biodiversity, Food and Health

Question		Expected Answers	Marks	Additional Guidance
1	(a)	obese ; iron ; haemoglobin ;	3	
1	(b)	24.7 ; ;	2	If answer incorrect or to the wrong number of dp, then <b>ALLOW</b> one mark for working: $69 \div 1.67^2$ 24.74 = one mark <b>IGNORE</b> 25 and look for working mark If units are given, they <b>must</b> be $\text{kg m}^{-2}$ (or $\text{kg/m}^2$ ) Max 1 for incorrect units
1	(c) (i)	<u>overweight</u> / borderline <u>overweight</u> ;	1	<b>DO NOT CREDIT</b> if more than one answer given
1	(c) (ii)	1 very close to border / AW ; 2 graph does not distinguish between male and female ; 3 does not measure actual fat / AW ; 4 has, more / less, muscle / bone (than normal) <b>OR</b> (does not take into account) muscle / bone, mass / density / weight ;  5 muscle / bone, heavier / denser, than fat / AW ; 6 pregnant ;	2 max	1 <b>DO NOT CREDIT</b> mistake reading graph  4 Must refer to idea of amount of muscle / bone being different from normal. <b>DO NOT CREDIT</b> muscle / bone unqualified <b>CREDIT</b> has osteoporosis as ref. to different bone density

Question		Expected Answers	Marks	Additional Guidance
1	(d)	<p>1 coronary heart disease / CHD / atherosclerosis / angina / coronary thrombosis / myocardial infarction / heart attack / cardiac arrest / cardiovascular disease / stroke ;</p> <p>2 (osteo)arthritis ;</p> <p>3 (Type 2) diabetes ;</p> <p>4 high blood pressure / <u>hypertension</u> ;</p> <p>5 gallstones ;</p> <p>6 cancer ;</p>	2 max	<p>1 <b>DO NOT CREDIT</b> heart disease alone / arteriosclerosis</p> <p>2 <b>DO NOT CREDIT</b> rheumatoid arthritis</p> <p>3 <b>DO NOT CREDIT</b> Type 1 diabetes</p> <p>6 <b>ACCEPT</b> any type of cancer</p>
		<b>Total</b>	<b>10</b>	

Question	Expected Answers	Marks	Additional Guidance
2 (a)	<p>1 hydrogen bond represented as, horizontal / vertical, dashed line between <b>O</b> on one molecule and <b>H</b> on the adjacent molecule ;</p> <p>2 hydrogen / <b>H</b>, bond label (on any drawn bond between 2 molecules) ;</p> <p>3 (delta positive) <math>\delta^+</math> on <b>each</b> drawn <b>H</b> <u>and</u> (delta negative) (2) <math>\delta^-</math> on <b>each</b> drawn <b>O</b> ;</p>	3	 <p>1 <b>DO NOT CREDIT</b> if &gt;1 H bond is drawn between the same two molecules</p> <p>3 if both molecules drawn, <math>\delta^+</math> and <math>\delta^-</math> on <b>all</b> atoms. <b>ACCEPT</b> d (lower case) for <math>\delta</math></p>

Question	Expected Answers	Marks	Additional Guidance
2 (b)	<p><i>ice floats</i></p> <p><b>P1</b> (ice less dense because) molecules spread out ;  <b>P2</b> molecules form, crystal structure / lattice / AW ;  <b>P3</b> ice forms insulating layer / clearly described ;  <b>P4</b> water (below ice), does not freeze / still liquid / remains water / kept at higher temperature ;</p> <p><b>S1</b> organisms do not freeze ;  <b>S2</b> animals / organisms, can still, swim / move ;  <b>S3</b> allows, currents / nutrients, to circulate ;</p> <p><i>solubility</i></p> <p><b>P5</b> ions / named ion, polar / charged ;  <b>P6</b> ions / named ion, attracted to / bind to / interact with, water;</p> <p><b>S4</b> (named) organisms / plants / animals, uptake / AW, minerals / named mineral / nutrients ;</p> <p><b>S5</b> correct use of named, mineral / nutrient, in organism ;</p>		<p><b>P3</b> e.g. acts as a barrier to the cold</p> <p><b>S1 DO NOT ACCEPT</b> die (because 'survival' stated in stem)</p> <p><b>S4 ACCEPT</b> obtain / enters / goes in / gets</p> <p><b>S5</b> needs to be more specific than 'for growth / metabolism' suitable examples include but are not limited to: nitrates for amino acids / protein / (named) nucleic acid / phosphate for ATP / phospholipids / plasma membrane / magnesium for chlorophyll etc</p>

		<p><i>temperature stability</i></p> <p><b>P7</b> many / stable, (hydrogen) bonds between molecules ;</p> <p><b>P8</b> at lot of energy to, force apart molecules / break bonds ;</p> <p><b>P9</b> high (specific) <u>heat capacity</u> ;</p> <p><b>S6</b> temperature does not change much / small variation in temperature ;</p> <p><b>S7</b> effect of temperature on , enzymes / metabolic rate ;</p> <p><b>S8</b> gases remain soluble ;</p> <p><b>H</b> <i>Award once in any section</i> hydrogen bonds ;</p>	<p><b>7 max</b></p>	<p><b>P7</b> Many hydrogen bonds between molecules = 2 marks (gets P7 and H)</p> <p><b>P8 ACCEPT</b> heat as alternative to energy</p> <p><b>P9 DO NOT CREDIT</b> latent heat capacity</p> <p><b>S6</b> could refer to organisms <b>or</b> surrounding water <b>ACCEPT</b> stays cool in summer / stays warm in winter <b>DO NOT CREDIT</b> constant alone</p> <p><b>S7 ACCEPT</b> any reference to temperature affecting enzyme activity / metabolic rate</p> <p><b>DO NOT CREDIT</b> if in incorrect context (e.g. they are strong bonds)</p>
		<b>QWC</b> - Award if you see a P mark <b>and</b> an S mark within the <b>same</b> section ;	<b>1</b>	Look for the <b>S</b> mark first, then award QWC if there is a <b>P</b> mark <b>in the same section</b> in the mark scheme
<b>2</b>	<b>(c)</b>	<p>hydrolysis / hydrolytic ;</p> <p>hydrophilic ;</p>	<b>2</b>	<p><b>ACCEPT</b> phonetic spelling throughout</p> <p><b>IGNORE</b> head</p>
		<b>Total</b>	<b>13</b>	

Question			Expected Answers	Marks	Additional Guidance
3	(a)	(i)	X ;	1	
3	(a)	(ii)	<p>1 substrate / PABA, <b>and</b>, inhibitor / sulfonamide, similar shape;</p> <p>2 able to, bind / fit into / block, <u>active site</u> ;</p> <p>3 (shape) <u>complimentary</u> to <u>active site</u> ;</p> <p>4 both have, hex / benzene / 6-C, (ring) ;</p> <p>5 both have, NH<sub>2</sub> / amine ;</p> <p>6 correct ref to a difference between sulfonamide and PABA ;</p>	3 max	<p>1 <b>ACCEPT</b> similar structure <b>DO NOT CREDIT</b> same shape</p> <p>3 <b>DO NOT CREDIT</b> refs to PABA and sulfonamide being complementary to each other or to the enzyme (alone)</p> <p>6 e.g. only sulfonamide contains S sulfonamide has 1 more NH<sub>2</sub> group sulfonamide has SONH<sub>2</sub> but PABA has N<sub>2</sub> only PABA has COOH group</p>
3	(b)	(i)	<p><i>without inhibitor</i></p> <p>1 more, PABA / substrate, molecules enter <u>active site</u> ;</p> <p>2 more, enzyme substrate complexes / ESCs, formed ;</p> <p>3 at low concentration not all active sites occupied / at high concentration all active sites occupied ;</p> <p>4 achieves / reaches, max (turnover) rate / V<sub>max</sub> ;</p> <p>5 (at high substrate concentration) enzyme <u>concentration</u> limiting ;</p>	3 max	<p>1 <b>ACCEPT</b> more successful collisions between substrate and active site</p> <p>3 <b>ACCEPT</b> active sites filled / no free active sites <b>DO NOT CREDIT</b> active sites run out</p> <p>4 <b>ACCEPT</b> 'cannot work any quicker' <b>DO NOT CREDIT</b> 'optimum rate' or 'rate levels off'</p>

Question			Expected Answers	Marks	Additional Guidance
3	(b)	(ii)	<p><i>with inhibitor</i></p> <p>1 inhibitor / sulfonamide, can, fit / block / bind to / compete for, <u>active site</u> ;</p> <p>2 (occupies it) for a short time / temporary / reversibly ;</p> <p>3 fewer active sites available (for substrate) / AW ;</p> <p>4 (idea of) more substrate reduces chance of inhibitor getting in;</p>	2 max	<p>3 <b>ACCEPT</b> substrate can't access active site</p> <p>4 <b>ACCEPT</b> more ESC formed in context of overcoming inhibition / substrate can out-compete inhibitor</p>
3	(c)		<p>1 mutation ;</p> <p>2 sulfonamide is <u>selective</u>, agent / pressure ;</p> <p>3 resistant survive / non resistant die ;</p> <p>4 (resistance) allele / gene / mutation, passed to, offspring / next generation ;</p> <p>5 (happens) over many generations ;</p> <p>6 AVP ;</p>	4 max	<p><b>DO NOT CREDIT</b> immune for <b>any</b> mark point</p> <p>3 <b>IGNORE</b> refs to (survivors) breed / reproduce ;</p> <p>5 <b>IGNORE</b> refs to time. Look for generations</p> <p>6 e.g. mutation is, <b>random</b> / spontaneous allele / gene, passed on by, plasmids / horizontal transmission</p>
3	(d)	(i)	<p><u>bacteria</u>, killed / destroyed / cannot grow / lyse, in presence of antibiotic ;</p>	1	<p><b>DO NOT CREDIT</b> 'antibiotic works better' <b>or</b> 'there are no bacteria there' <b>or</b> 'bacteria are broken down'</p>
3	(d)	(ii)	streptomycin ;	1	<b>IGNORE</b> '4' as it is the number rather than the name

Question			Expected Answers	Marks	Additional Guidance
3	(d)	(iii)	<p>1 cheap / AW ;</p> <p>2 (test is) quick to carry out / (deals with several antibiotics) at same time / AW ;</p> <p>3 (idea of) allowing early treatment of patient ;</p> <p>4 (idea of) compares antibiotics under same conditions ;</p> <p>5 (correct antibiotic first time) to prevent antibiotic resistance developing ;</p>	3 max	<p><b>DO NOT CREDIT</b> responses which simply refer to selecting the best antibiotic</p> <p><b>2 DO NOT CREDIT</b> speed of antibiotic action</p>
3	(e)		<p>(new) drugs come from (named) organisms ;</p> <p>biodiversity is reducing ;</p> <p>habitats / named habitat, destroyed / lost ;</p> <p><u>reason</u> for habitat destruction ;</p>	2 max	<p><b>ACCEPT</b> plants / animals / fungi / species / etc.</p> <p><b>ACCEPT</b> deforestation / natural environment <u>lost</u></p> <p>e.g. global warming logging fuel crops construction / industrialisation mining fishing pollution tourism</p> <p><b>ACCEPT</b> any other valid reason that will destroy natural habitats but <b>not</b> general statements such as 'human development' or 'business'</p>
			<b>Total</b>	<b>20</b>	



Question			Expected Answers	Marks	Additional Guidance
4	(a)	(i)	L ; M ; J ;	3	If 2 <sup>nd</sup> letter given, no mark
4	(a)	(ii)	<p>1 peptide bond ;</p> <p>2 between, amine / J group (of one amino acid) and carboxyl / L group (of another) ;</p> <p>3 H (from amine group ) combines with OH (from carboxyl group) ;</p> <p>4 condensation reaction <b>OR</b> water, lost / eliminated / produced / created / AW ;</p> <p>5 covalent ;</p>	3 max	<p><b>CREDIT</b> answers from clearly drawn diagrams with bonds labelled</p> <p>1 <b>ACCEPT</b> peptide link</p>
4	(b)		<p>1 some R groups, attract / repel ;</p> <p>2 <u>disulfide</u>, bridges / bond ;</p> <p>3 between, cysteine / SH / S (atoms) ;</p> <p>4 hydrogen / H, bonds ;</p> <p>5 ionic bonds between, oppositely charged / + and -, R groups ;</p> <p>6 hydrophilic R groups, on outside of molecule / in contact with water (molecules) ;</p> <p>7 hydrophobic R groups, on inside of molecule / shielded from water (molecules) ;</p>	4 max	4 <b>DO NOT CREDIT</b> in context of <b>secondary</b> structure

Question			Expected Answers	Marks	Additional Guidance																																												
4	(c)	(i)	<table border="1"> <thead> <tr> <th></th> <th>glycogen</th> <th>collagen</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>carbohydrate / polysaccharide</td> <td>protein / polypeptide</td> <td>;</td> </tr> <tr> <td>2</td> <td>(alpha) glucose (units)</td> <td>amino acid (units)</td> <td>;</td> </tr> <tr> <td>3</td> <td>identical units</td> <td>different amino acid units</td> <td>;</td> </tr> <tr> <td>4</td> <td>glycosidic, bonds / links</td> <td>peptide, bonds / links</td> <td>;</td> </tr> <tr> <td>5</td> <td>branched</td> <td>unbranched / linear</td> <td>;</td> </tr> <tr> <td>6</td> <td>non-helical</td> <td>helical</td> <td>;</td> </tr> <tr> <td>7</td> <td>one chain (per molecule)</td> <td>three chains (per molecule)</td> <td>;</td> </tr> <tr> <td>8</td> <td>no cross links</td> <td>cross links (between chains)</td> <td>;</td> </tr> <tr> <td>9</td> <td>contains C H O</td> <td>contains C H O N</td> <td>;</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		glycogen	collagen		1	carbohydrate / polysaccharide	protein / polypeptide	;	2	(alpha) glucose (units)	amino acid (units)	;	3	identical units	different amino acid units	;	4	glycosidic, bonds / links	peptide, bonds / links	;	5	branched	unbranched / linear	;	6	non-helical	helical	;	7	one chain (per molecule)	three chains (per molecule)	;	8	no cross links	cross links (between chains)	;	9	contains C H O	contains C H O N	;					3 max	<b>AWARD</b> 1 mark per correct row Comparative statements must be made in a row  <b>2 DO NOT CREDIT</b> beta  <b>5 ALLOW</b> straight  <b>7 DO NOT CREDIT</b> strands  <b>9 IGNORE</b> S (for collagen)
	glycogen	collagen																																															
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4	(c)	(ii)	(high tensile) strength / strong ; does not stretch / is not elastic ; insoluble ; flexible ;	2 max	Mark the 1 <sup>st</sup> answer on each numbered line <b>IGNORE</b> fibrous / tough																																												
<b>Total</b>				<b>15</b>																																													

Question			Expected Answers	Marks	Additional Guidance
5	(a)	(i)	(diagram shows that some) individuals have more than one risk factor ;	1	<b>DO NOT CREDIT</b> CHD is multifactorial
5	(a)	(ii)	<p>1 high, saturated / animal, fat diet ;</p> <p>2 high salt intake ;</p> <p>3 (diet) low in (named) antioxidants / vitamin A / vitamin C / vitamin E ;</p> <p>4 obesity ;</p> <p>5 genetic / heredity / inherited / ethnicity / race ;</p> <p>6 gender / sex ;</p> <p>7 excess alcohol consumption ;</p> <p>8 (increasing) age ;</p> <p>9 diabetes ;</p> <p>10 stress ;</p>	2 max	<p>Mark the 1<sup>st</sup> answer on each numbered line.</p> <p>1 <b>ACCEPT</b> absence of polyunsaturated fats</p> <p>7 must indicate, excess / high levels</p>

Question			Expected Answers			Marks	Additional Guidance
5	(a)	(iii)	effect	nicotine	carbon monoxide		<b>DO NOT CREDIT</b> hybrid ticks <b>IGNORE</b> crosses in the 'blank' boxes
			increases heart rate	✓			
			constricts arterioles	✓		;	
			damages the lining of arteries		✓	;	
			reduces the ability of haemoglobin to carry oxygen		✓	;	
			makes platelets sticky	✓		;	
						4	

Question		Expected Answers	Marks	Additional Guidance
5	(b)	<p>1 damage to <u>endothelium</u> ;</p> <p>2 LDLs <u>contain</u>, saturated fat / cholesterol ;</p> <p>3 LDLs collect at site of damage ;</p> <p>4 fatty substances / cholesterol / LDLs, deposited, <u>in</u> artery wall / <u>under</u> endothelium ;</p>	2 max	<p>2 <b>DO NOT CREDIT</b> moves / transports <b>CREDIT</b> LDLs are <u>protein</u> and saturated fat / cholesterol</p> <p>3 must be stated</p> <p>4 <b>ACCEPT</b> fats / lipids <b>ACCEPT</b> under lining of artery wall <b>DO NOT CREDIT</b> veins / vessels / capillaries</p>
5	(c)	<p>1 increases size / AW, of <u>lumen</u> ;</p> <p>2 increases / eases / decreases resistance to, blood flow ;</p> <p>3 (therefore) more, O<sub>2</sub> / glucose ;</p> <p>4 for <u>aerobic</u> respiration ;</p> <p>5 in, heart <u>muscle</u> / cardiac <u>muscle</u> / myocardium ;</p> <p>6 more CO<sub>2</sub> removed ;</p>	4 max	<p>1 <b>ACCEPT</b> reduces blockage in lumen</p> <p>2 <b>ACCEPT</b> 'more blood' / 'blood flows more freely' / 'blood flows as normal' / 'quicker blood flow'</p> <p>3 needs idea of more oxygen (than before operation) <b>CREDIT</b> idea of preventing oxygen starvation</p> <p>'more oxygenated blood' gets mark points 2 and 3</p>
<b>Total</b>			<b>13</b>	

Question			Expected Answers	Marks	Additional Guidance
6	(a)	(i)	<p><u>deoxyribose</u> (sugar) ; phosphate (group) ;</p> <p>(nitrogenous / purine or pyrimidine) base / one correctly named base ;</p>	3	<p><b>DO NOT CREDIT</b> dioxyribose <b>DO NOT CREDIT</b> phosphate head or phosphate backbone</p> <p><b>DO NOT CREDIT</b> letter instead of named base <b>DO NOT CREDIT</b> uracil <b>DO NOT CREDIT</b> incorrect spelling of thymine with 'a'</p>
6	(a)	(ii)	<p>has ribose ; uracil / U, instead of, thymine / T ; single stranded ; 3 forms / AW ;</p>	2 max	<p>assume answer refers to RNA unless otherwise stated</p> <p><b>DO NOT CREDIT</b> incorrect spelling of thymine with 'a'</p>

Question		Expected Answers		Marks	Additional Guidance
6	(b)	1	untwist / unwind ;	6 max	1 <b>DO NOT CREDIT</b> unravel
		S 2	unzip / described ;		2 <b>DO NOT CREDIT</b> strands separating without qualification
S 3	H bond breaks ;				
	4	both strands act as template ;			
N 5	(aligning of) free (DNA) <u>nucleotides</u> ;	5 <b>DO NOT CREDIT</b> bases			
N 6	<u>complementary</u> , base / nucleotide, pairing ;	6 & 7 Do not consider for <b>QWC</b> if mark awarded in the context of breaking apart or DNA structure only, rather than forming new double helix			
N 7	C to G <b>and</b> T to A / purine to pyrimidine ;				
R 8	hydrogen bonds reform ;				
R 9	sugar-phosphate back bone forms ;				
R 10	(using) covalent / phosphodiester, bond ;				
	11 <u>semi-conservative</u> replication ;				
	12 DNA polymerase ;	12 <b>CREDIT</b> at any stage in the process			
	13 AVP ;	13 e.g. ligase / helicase / gyrase used in correct context C – G 3 H bonds / T – A 2 H bonds activation of free nucleotides (with 2 phosphates) synthesis in the 5' to 3' direction Okazaki fragments on lagging strand			
		<b>QWC</b> - correct sequence – 1 <b>S</b> mark, then 1 <b>N</b> mark, then 1 <b>R</b> mark ;	1	It should be clear that candidate realises that the sequence is S, then N then R – even if not written in that order <b>DO NOT CREDIT</b> if any ref to transcription / translation	

Question			Expected Answers	Marks	Additional Guidance
6	(c)	(i)	polypeptide / protein / primary structure / a sequence of amino acids ;	1	<b>DO NOT CREDIT</b> 'codes for an amino acid' <b>IGNORE</b> enzyme / named protein
6	(c)	(ii)	different, sequence of amino acids / primary structure / AW ; different protein / protein folds up differently / different tertiary structure ; (product) no longer functions / different function ;	2 max	<b>DO NOT CREDIT</b> 'product' or incorrect biochemical (e.g. carbohydrate) <b>ACCEPT</b> suitable example, e.g. active site of enzyme no longer complimentary to substrate
<b>Total</b>				<b>15</b>	



Question			Expected Answers	Marks	Additional Guidance
7	(a)		<p><i>habitat</i></p> <p>1 the place where, an organism / organisms / a population / a community, lives ; 1 max</p> <p><i>biodiversity</i></p> <p>2 variety of life / the range of living organisms found / AW ;</p> <p>3 variety / range, of, habitats / ecosystems ;</p> <p>4 <u>number</u> of different <u>species</u> ;</p> <p>5 variety / genetic diversity, within species ; 2 max</p>	3 max	<p>1 <b>ACCEPT</b> animal or plant <b>ACCEPT</b> location / environment / area <b>DO NOT CREDIT</b> ecosystem</p> <p><i>max 2 for biodiversity</i></p> <p>2 <b>DO NOT CREDIT</b> ref to variation <b>ACCEPT</b> <u>species</u> richness / <u>species</u> diversity</p> <p>4 must have ref to number / how many / etc.</p>
7	(b)		<p>not <u>random</u> / should have been <u>random</u> ;</p> <p>unrepresentative / skewed / biased, results ;</p> <p>creates an over-estimate of diversity ;</p> <p>may miss some (dominant) species / does not cover full range of species ;</p>	2 max	<p><b>DO NOT CREDIT</b> ref to 'fair test' unless qualified</p> <p>'misleading' is not quite good enough</p> <p><b>CREDIT</b> plant / animal instead of species</p>
7	(c)	(i)	<p>remove units from the body of the table <b>and</b> put units in column heading / AW ;</p>	1	<p><b>ALLOW</b> 'measurement' or 'type of measurement' instead of 'unit'</p> <p><b>DO NOT CREDIT</b> 'units are not necessary in table'</p>

Question			Expected Answers	Marks	Additional Guidance
7	(c)	(ii)	<p>bell shaped ;</p> <p>peak / highest point, for ling between peaks for bracken and cotton grass (on horizontal axis) ;</p> <p>peak / highest point, for ling lower than both bracken and cotton grass (on vertical axis) ;</p>	3	<ul style="list-style-type: none"> <li>• must start at 0% cover and after 0m and finish at 0% cover and before 100m</li> <li>• line must cross the line for bracken</li> <li>• allow sharp angle for peak of bell</li> </ul>
7	(c)	(iii)	<p>1 absent at bottom of slope / present at top of slope ;</p> <p>2 amount of bracken / percentage cover, increases with increasing distance ;</p> <p>3 comparative figs. with units ;</p>	2 max	<p>1 <b>DO NOT CREDIT</b> that bracken is present at top if answer also implies that some bracken is present at the bottom</p> <p><b>ALLOW</b> 'before 40 - 50m' as AW for 'bottom'</p> <p><b>ALLOW</b> 'after 40 - 50m' as AW for 'top'</p> <p><b>ALLOW</b> 'start' instead of 'bottom' and 'finish' or 'end' or 'higher up' instead of 'top'</p> <p>Needs to be stated – cannot be implied from mp 2</p> <p>3 two percentages at two stated distances (must be from table) e.g. 0% at 0m and 74% at 100m <b>or</b> percentage difference between two stated distances</p> <p><b>ALLOW</b> 'percentage cover' instead of % for units</p> <p><b>DO NOT CREDIT</b> 0% at the bottom and 74% at the top (as no distance has been quoted)</p>

Question			Expected Answers	Marks	Additional Guidance
7	(d)	(i)	<p>record / identify / list / AW, all species / (all) other plants ;</p> <p>(count / estimate) numbers of <u>individuals</u> within each species / AW ;</p>	2 max	<p><b>IGNORE</b> observe</p> <p><b>IGNORE</b> animals <i>for this habitat</i></p> <p><b>IGNORE</b> 'species richness' and any other calculation</p> <p><b>ACCEPT</b> the number of plants / species</p> <p>If the formula is given, only credit this mark if 'n' is explained in terms of the number of individuals within the species</p>
7	(d)	(ii)	<p>not stable / at risk / low ability to withstand change / AW ;</p> <p>more likely to lose species ;</p>	1 max	<p><b>IGNORE</b> 'biodiversity is low' as this is given in the question</p> <p><b>IGNORE</b> 'only a few species' or 'dominated by a few species' as these are descriptions of low biodiversity</p>
			<b>Total</b>	<b>14</b>	