GCSE MARKING SCHEME

SCIENCE - BIOLOGY

JANUARY 2015

INTRODUCTION

The marking schemes which follow were those used by WJEC for the January 2015 examination in GCSE SCIENCE - BIOLOGY. They were finalised after detailed discussion at examiners' conferences by all the examiners involved in the assessment. The conferences were held shortly after the papers were taken so that reference could be made to the full range of candidates' responses, with photocopied scripts forming the basis of discussion. The aim of the conferences was to ensure that the marking schemes were interpreted and applied in the same way by all examiners.

It is hoped that this information will be of assistance to centres but it is recognised at the same time that, without the benefit of participation in the examiners' conferences, teachers may have different views on certain matters of detail or interpretation.

WJEC regrets that it cannot enter into any discussion or correspondence about these marking schemes.

GCSE BIOLOGY - B1

JANUARY 2015 MARK SCHEME

Question			Marking details	Marks Available
1	*(a)*	(i)	Bunting	1
		(ii)	Starling	1
	(b)	(i)	any **two** from: • {some/most} hedges {gone/cut down}/{fewer/ loss of} hedges; • {Less/loss of} grassland; • reduced crop {variety/ types/OWTTE}/ no {peas/potatoes} grown/only wheat grown; • more buildings; NOT less trees	2
		(ii)	any **two** from: habitat/ place to live/shelter/cover/hide from predators; NOT hide alone Food/ to get prey; nest sites/place to lay eggs;	2
			Question 1 total	**[6]**

Question			Marking details	Marks Available
2	*(a)*		vertebrates; *Equus;* *ferus;* correct spelling for all three answers upper case 'E', lower case 'f'	3
	(b)	(i)	DNA;	1
		(ii)	<u>species</u>;	1
			Question 2 Total	**[5]**

Question			Marking details	Marks Available
3	*(a)*			3

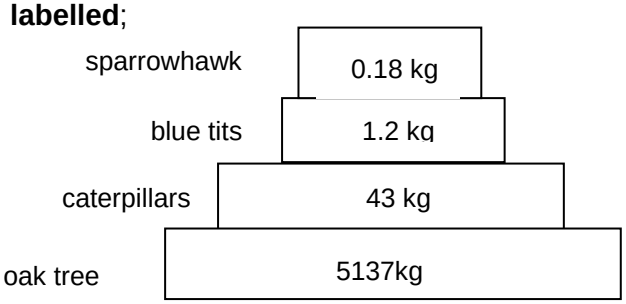
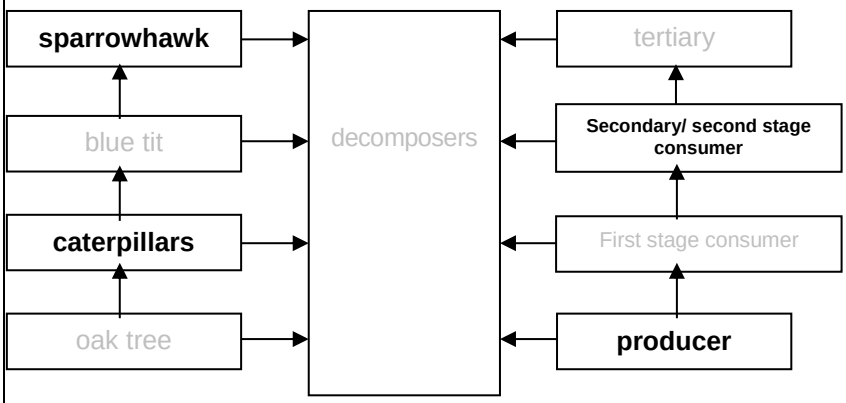
condition		**excess**		
	bacteria	**alcohol**	**energy in food**	**salt in food**
high blood pressure				given
infection	✓			
drug dependence		✓		
obesity			✓	

(b)	(i)	infection;	1
	(ii)	obesity;	1
(c)		{Thick/excessive} mucus; NOT mucus alone {Blocking/clogging} bronchioles; Reject lungs/trachea	2
		Question 3 Total	**[7]**

Question			Marking details	Marks Available
4	*(a)*	(i)	all plots correct;; +/- ½ small square tolerance 0 errors = 2 marks 1 error = 1 mark 2 errors = 0 marks	2
		(ii)	correct line through the plots;	1
		(iii)	(nitrate makes it) increase, then fall;	1
	(b)		To show that the {effect/difference} is due to nitrate;	1
	(c)	(i)	I 7; II 7;	2
		(ii)	1 number of dead/decaying plants increase; 2 (bacteria/decomposers/fungi) use oxygen/respire; *point 2 is dependent on point 1* Alternative 1 number of living plants increase; 2 plants produce oxygen/photosynthesise; *point 2 is dependent on point 1*	2
			Question 4 Total	**[9]**

Question			Marking details	Marks Available
5	*(a)*		23;	1
	(b)		X;	1
			<table><tr><td></td><td>given</td><td>X</td></tr><tr><td>given</td><td>given</td><td>XX</td></tr><tr><td>Y</td><td>XY</td><td>XY</td></tr></table>	2
			one mark for correct gametes; one mark for correct mechanics from correct gametes; NO ecf from (i)	
			Question 5 total	**[4]**

Question			Marking details	Marks Available
6	*(a)*		Sweat gland {produces/releases/creates} sweat; Travels up sweat duct **and** onto the (skin) surface;	2
	(b)		• blocks {pore/duct}/sweat cannot get out/no sweat on surface; NOT no sweat {produced/released} alone/no sweating • {less/no} {cooling/heat loss}; • {No/less} evaporation;	3
			Question 6 Total	**[5]**

Question			Marking details	Marks Available
7/1	*(a)*	(i)	2 17 3456 1 all correct 1 mark	1
		(ii)	I **Four** trophic levels showing the correct **shape** and **labelled**;  II All masses correct including units; (independent of shape)	1 1
	(b)		Food chain column correct; Trophic level column correct;  	1 1
	(c)		iv	1
			Question 7/1 total	**[6]**

Question			Marking details	Marks Available
8/2	*(a)*	(i)	1344;; *If answer incorrect award 1 mark for* *16 x 20 x 4.2*	2
		(ii)	6720 (ecf from a(i));	1
	(b)		**Any 3 from: 1 mark each** • Time between igniting the food and placing it under the boiling tube varies (OWTTE); • Distance of the burning food from the boiling tube varied/ not placed in the same spot; • {Type/ kind} of food (burnt) varied; • Incomplete burning; NOT {mass/size} of food varied/different volume of water/ not burnt for same length of tome/ different food	3
			Question 8/1 total	**[6]**

Question			Marking details	Marks Available
9/3	*(a)*		Any **one** from: • Does not kill/ harm} {insects/ organisms} {which are beneficial/ that pollinate crops/ which are useful}/ ORA; • Only 1 application/ it is cheaper/ ORA; NOT bioaccumulation • No (chemical) pollution/ ORA;	1
	(b)		Fertilizers/GM (crops)/ selective breeding/named fertilizer/ manure/slurry/biological control/genetic engineering; NOT reference to pesticide use/herbicides	1
	(c)	(i)	1947/ 1948 ;	1
		(ii)	Leaching/run off/spray carried by air onto water/(rain) {carried/ washed} it into rivers ; NOT DDT sprayed onto water/rain leaked it into rivers	1
		(iii)	It (bio)accumulates/builds up (in tissues)/it is persistent/it concentrates in tissues/it is not destroyed after it enters the body; At the concentration found in the Bald Eagle it is {toxic/poisonous}/ORA; NOT kill/lethal 2nd mark linked to 1st	2
			Question 9/3 Total	**[6]**

Question			Marking details	Marks Available
10/4			**Indicative content:** Pancreas Secretes insulin Travels in blood stream To liver Glucose is converted to glycogen Glycogen stored in the liver **5 – 6 marks** The candidate constructs an articulate, integrated account correctly linking relevant points, such as those in the indicative content, which shows sequential reasoning. The answer fully addresses the question with no irrelevant inclusions or significant omissions. The candidate uses appropriate scientific terminology and accurate spelling, punctuation and grammar. **3 – 4 marks** The candidate constructs an account correctly linking some relevant points, such as those in the indicative content, showing some reasoning. The answer addresses the question with some omissions. The candidate uses mainly appropriate scientific terminology and some accurate spelling, punctuation and grammar. **1 – 2 marks** The candidate makes some relevant points, such as those in the indicative content, showing limited reasoning. The answer addresses the question with significant omissions. The candidate uses limited scientific terminology and inaccuracies in spelling, punctuation and grammar. **0 marks** The candidate does not make any attempt or give a relevant answer worthy of credit. **Question 10/4 Total**	6 **[6]**

<table>
<tr><th colspan="3">Question</th><th>Marking details</th><th>Marks Available</th></tr>
<tr><td>5</td><td>(a)</td><td>(i)</td><td>One {form/version/variant} of <u>a</u> gene/{two/different}{forms/ types/versions} of {the <u>same/a</u>} gene;</td><td>1</td></tr>
<tr><td></td><td></td><td>(ii)</td><td>• In a {heterozygous organism/OWTTE} the allele that is not {expressed/shown}/
• only {expressed/shown} {when homozygous/when in a pair of recessive alleles}/</td><td>1</td></tr>
<tr><td></td><td>(b)</td><td>(i)</td><td>Gametes correct (must use correct letter for this mark);

Mechanics of cross correct;
Allow ECF of incorrect gametes but must use B/b

<table>
<tr><td>Gametes</td><td>B</td><td>b</td></tr>
<tr><td>B</td><td>BB</td><td>Bb</td></tr>
<tr><td>b</td><td>Bb</td><td>bb</td></tr>
</table></td><td>2</td></tr>
<tr><td></td><td></td><td>(ii)</td><td>75%/ 0.75/ ¾/ 3 in 4;
NOT ratio</td><td>1</td></tr>
<tr><td></td><td></td><td>(iii)</td><td>3 : 1 ;</td><td>1</td></tr>
<tr><td></td><td></td><td></td><td>Question 5 Total</td><td>[6]</td></tr>
</table>

Question			Marking details	Marks Available
6	*(a)*		There are {46 chromosomes/(23) pairs/has a diploid number/ not haploid/has both X and Y;	1
	(b)		No {corresponding/matching} part of chromosome (for paired allele)/only has one X chromosome/ only has one {copy of the gene/allele};	1
	(c)		Linearly/in a line/in a row;	1
			Question 6 total	**[3]**

Question			Marking details	Marks Available
7	*(a)*		*Penaeus japonicus;* *Correct spelling and format*	1
	(b)		*Penaeus kerathurus;* *Correct spelling and format* The {DNA/genetic} profile is <u>most</u> similar to the unknown species/ both are in the same genus/both have the same first {scientific/latin} name/<u>most</u> similar <u>DNA banding pattern</u>; NOT genetic fingerprint/ genotypes/genus	2
	(c)		They use the same name of genus and species/same {scientific/universal/Latin/international/binomial} name/scientific name is universal;	1
			Question 7 total	**[4]**

Question			Marking details	Marks Available
8	*(a)*		As the nitrate concentration increases, the gap between the shells increases (up to 4mm) and levels off;	1
	(b)		Any two from: Predation; Disease; flow of water/tides/current other named chemical (e.g. phosphates/sewage/oil/salt) competition for {food/space}; pH; temperature; oxygen; NOT weather/climate	2
	(c)		(Nitrate causes) excess plant growth/ algal bloom/OWTTE; Plants {die/decay}/OWTTE; NOT bacteria eat plants {Bacteria/decomposers/ fungi} use oxygen for respiration; 3rd mark point linked to 2nd mark point	3
			Question 8 Total	**[6]**

Question			Marking details	Marks Available
9	*(a)*		655 – 280 = 375 375 x 100 = 655 = 57.25/ 57.3% NOT 57.0/57 Correct answer = 2 marks Allow 1 mark for correct working but incorrect answer	2
	(b)	(i)	Flatworms compete with hedgehogs for {food/ invertebrates}; Therefore hedgehogs eat more birds' eggs (avoiding the competition); (must be linked for second mark)	2
		(ii)	Numbers of {some birds/named birds (Snipe/Dunlin)} dropped (without introduction of hedgehogs);	1
		(iii)	{Lack of/no/less} {predators/carnivorous mammals/carnivores}; Abundance of {food/ eggs}/large variety of food/less competition for food;	2
			Question 9 Total	**[7]**

Question			Marking details	Marks Available
10	*(a)*		One axis labelled- number of leaves and other axis labelled – length of leaf(mm); Suitable linear scales (including origin) + at least half of grid used; Bars correct heights (drawn with ruler);	3
	(b)		Continuous;	1
			Question 10 Total	**[4]**

Question			Marking details	Marks Available
11			**Indicative content** Agouti/coat gene appeared as a mutation led to variation in the fur colour colour change was an advantage because of camouflage allowed the mutant to survive to breed mutant gene was passed on DNA comparison between modern deer mice and the remains of ancient ones. **5 – 6 marks** The candidate constructs an articulate, integrated account correctly linking relevant points, such as those in the indicative content, which shows sequential reasoning. The answer fully addresses the question with no irrelevant inclusions or significant omissions. The candidate uses appropriate scientific terminology and accurate spelling, punctuation and grammar. **3 – 4 marks** The candidate constructs an account correctly linking some relevant points, such as those in the indicative content, showing some reasoning. The answer addresses the question with some omissions. The candidate uses mainly appropriate scientific terminology and some accurate spelling, punctuation and grammar. **1 – 2 marks** The candidate makes some relevant points, such as those in the indicative content, showing limited reasoning. The answer addresses the question with significant omissions. The candidate uses limited scientific terminology and inaccuracies in spelling, punctuation and grammar. **0 marks** The candidate does not make any attempt or give a relevant answer worthy of credit. **Question 11 Total**	6 **[6]**

GCSE BIOLOGY - B2

JANUARY 2015 MARK SCHEME

<table>
<tr><th colspan="3">Question</th><th>Marking details</th><th>Marks Available</th></tr>
<tr><td>1</td><td>(a)</td><td></td><td>
<table>
<tr><td>Features</td><td>Bacteria</td><td>Algae</td><td>Yeast</td></tr>
<tr><td>Cell wall</td><td>✓</td><td>✓</td><td>✓</td></tr>
<tr><td>nucleus</td><td>×</td><td>✓</td><td>✓</td></tr>
<tr><td>Chloroplast</td><td>×</td><td>✓</td><td>×</td></tr>
<tr><td>Reproduce by budding</td><td>×</td><td>×</td><td>✓</td></tr>
</table>
1mark per correct row;;;
Assume blank = ×
</td><td>3</td></tr>
<tr><td></td><td>(b)</td><td>(i)</td><td>Smaller;</td><td>1</td></tr>
<tr><td></td><td></td><td>(ii)</td><td>Cannot reproduce alone/needs a (living) cell for reproduction;
Accept – no cell membrane/no cytoplasm
NOT needs a cell to survive</td><td>1</td></tr>
<tr><td colspan="3"></td><td>Question 1 total</td><td>[5]</td></tr>
</table>

Question			Marking details	Marks Available
2	*(a)*		A trachea/cartilage ring; NOT windpipe B alveoli/ alveolus; Accept air sac	2
	(b)	(i)	(Diaphragm) down/flattens; NOT contract (can be neutral) (Ribs) up and out/ribcage expands;	2
		(ii)	Decreases	1
			Question 2 Total	**[5]**

<table>
<tr><th colspan="3">Question</th><th>Marking details</th><th>Marks Available</th></tr>
<tr><td>3</td><td>(a)</td><td>(i)</td><td>Nucleus;</td><td>1</td></tr>
<tr><td></td><td></td><td>(ii)</td><td><table><tr><td>46,46;</td><td>23,23,23,23;</td></tr><tr><td>Growth/replacement of {worn out/damaged/old} cells/repair damaged tissue;
NOT producing new cells</td><td></td></tr><tr><td></td><td>Different/ non identical;</td></tr></table></td><td>4</td></tr>
<tr><td></td><td></td><td>(iii)</td><td>Gametes;</td><td>1</td></tr>
<tr><td></td><td>(b)</td><td>(i)</td><td>Repair tissue/replace damaged tissues/{treat/cure} disease(named disease e.g. bone marrow transplants/ Parkinson’s/blindness/repairing {tendon/joint injury}/spinal cord repair);</td><td>1</td></tr>
<tr><td></td><td></td><td>(ii)</td><td>Involves {destruction of/damaging} embryos/loss of potential life;
Leading to ethical/religious/moral objection;
2nd point linked to 1st point</td><td>2</td></tr>
<tr><td></td><td></td><td></td><td>Question 3 Total</td><td>[9]</td></tr>
</table>

Question			Marking details	Marks Available
4	*(a)*		High **and** low; (1) both for one mark Semi-permeable; (1)	2
	(b)	(i)	3/ the strong solution of blackcurrant squash;	1
		(ii)	All readings correct (20 (column 2) + 24 (column 3));	1
		(iii)	2 bars of correct height in correct position;	1
		(iv)	2 **and** no change in <u>mass</u>/the potato chip was still 20g after 30 minutes; NOT weight	1
		(v)	Water concentration was higher outside the chip; Water {passes in/is absorbed}/chip gains water; Marks can be linked in either direction	2
			Question 4 Total	**[8]**

Question			Marking details	Marks Available
5	*(a)*	(i)	{Carbon dioxide/CO_2} **and** {oxygen/O_2};	1
		(ii)	Chlorophyll;	1
	(b)	(i)	Increases then {steady/plateau/reference to constant}; (increases) up to 4 a.u.;	2
		(ii)	Two correct readings (13.5 & 16.5); Correct calculation (3 a.u.); Correct answer = 2 marks Allow one mark for two correct readings if answer incorrect	2
		(iii)	{Carbon dioxide/CO_2}; NOT light/ temperature	1
	(c)		Starch; (formation of) cell walls;	2
			Question 5 total	**[9]**

Question			Marking details	Marks Available
6/1	*(a)*	(i)	extinct in the wild/ extinct;	1
		(ii)	It will be {reduced/lower/smaller}/ there will be fewer species/less diverse;	1
	(b)	(i)	Because they are receiving payment/they do not want the monkey to become extinct/ stop it becoming extinct;	1
		(ii)	Any **two** from • Link up the remaining isolated pocket of rainforest (OWTTE); • Extend the corridors outside the area shown in the diagram (OWTTE); • {Widen/ thicken} corridors/ increase area of corridor; NOT larger • More than one corridor to each area;	Max 2
		(iii)	Any **two** from: monkey can extend its range/increased habitat/more {area/space} to live in/can {move/spread} to different areas; breed with other monkeys outside its own pocket of rainforest; correct ref to gene pool; increase food {source/variety}/less competition for food; escape predation; isolated population have more chance of dying from disease;	Max 2
	(c)		Any **one** from: SSSIs; captive breeding programme; NOT breeding in zoos/wildlife parks alone National parks; seed banks; {wildlife/nature} reserve; Legislation on deforestation;	Max 1
			Question 6/1 Total	**[8]**

<table>
<tr><th colspan="3">Question</th><th>Marking details</th><th>Marks Available</th></tr>
<tr><td>7/2</td><td>(a)</td><td>(i)</td><td>All correct 2 marks 1 error 1 mark, 2 errors 0 marks
<table>
<tr><th></th><th>Inspired air (%)</th><th>Expired air (%)</th></tr>
<tr><td>Oxygen</td><td>21</td><td>16</td></tr>
<tr><td>Carbon dioxide</td><td>0.03/0.04</td><td>4</td></tr>
<tr><td>Nitrogen</td><td>79</td><td>79</td></tr>
<tr><td>Water vapour</td><td>varies</td><td>1</td></tr>
</table></td><td>2</td></tr>
<tr><td></td><td></td><td>(ii)</td><td>(16%) oxygen in {expired air/air breathed out};</td><td>1</td></tr>
<tr><td></td><td></td><td>(iii)</td><td>Sodium hydroxide/potassium hydroxide/soda lime;
Accept Sofnolime (trade name in diving community)</td><td>1</td></tr>
<tr><td></td><td>(b)</td><td>(i)</td><td>(The lime water in test tube A {remains/is}) {clear/colourless};
NOT no change/does not go cloudy/stays the same
(The lime water in test tube B would turn) milky/cloudy;</td><td>2</td></tr>
<tr><td></td><td>(c)</td><td></td><td>Any one from
Can {remain submerged/stay down} for longer;
Smaller tank needed;</td><td>Max 1</td></tr>
<tr><td></td><td></td><td></td><td>Question 7/2total</td><td>[7]</td></tr>
</table>

Question			Marking details	Marks Available
8/3	*(a)*		The more cigarettes smoked the higher deaths. The more cigarettes smoked higher {incidence/ chances} of lung cancer (OWTTE); {lag/delay/gap} {between commencement of/ time that they smoke/ smoking/ cigarette consumption} and possibility of (death from) lung cancer (OWTTE); Accept the more cigarettes smoked, the higher the deaths from lung cancer and these are roughly 20 years apart = 2 marks	2
	(b)		Accept any year between 1943 & 1947;	1
			Question 8/3 total	**[3]**

Question			Marking details	Marks Available
9/4			**Indicative content:** amylase digests/breaks down starch to glucose {pores/holes} in visking tubing/visking tubing is selectively permeable too small for starch molecules/particles to pass through/or ref to molecule size big enough to allow glucose molecules/ particles to diffuse through/or ref to molecule size water heated strongly/boiled with Benedict's reagent positive colour change (reference blue to green/orange/red) iodine solution added to water remains brown **5 – 6 marks** The candidate constructs an articulate, integrated account correctly linking relevant points, such as those in the indicative content, which shows sequential reasoning. The answer fully addresses the question with no irrelevant inclusions or significant omissions. The candidate uses appropriate scientific terminology and accurate spelling, punctuation and grammar. **3 – 4 marks** The candidate constructs an account correctly linking some relevant points, such as those in the indicative content, showing some reasoning. The answer addresses the question with some omissions. The candidate uses mainly appropriate scientific terminology and some accurate spelling, punctuation and grammar. **1 – 2 marks** The candidate makes some relevant points, such as those in the indicative content, showing limited reasoning. The answer addresses the question with significant omissions. The candidate uses limited scientific terminology and inaccuracies in spelling, punctuation and grammar. **0 marks** The candidate does not make any attempt or give a relevant answer worthy of credit. **Question 9/4 Total**	6 **[6]**

Question			Marking details	Marks Available
5	*(a)*	(i)	Peristalsis;	1
		(ii)	Muscles contract; and push/force the food along; 2nd mark is linked to 1st mark	2
	(b)		• Washing-up liquid emulsifies the milk fat/ OWTTE; • Increasing the surface area for the action of enzymes/ lipase; • enzyme digests (milk) fat into fatty acids (and glycerol) which {lower pH/ more acidic}; 2nd mark linked to 1st mark, 3rd mark is independent	3
			Question 5 Total	**[6]**

Question			Marking details	Marks Available
6	*(a)*		Any 2 from: (James) Watson; (Francis) Crick; (Maurice) Wilkins; (Rosalind) Franklin Correct spelling for all names. If first name is attempted it must relate correctly to the second name.	2
	(b)		TAGACATGTC	1
	(c)		3	1
			Question 6 Total	**[4]**

Question			Marking details	Marks Available
7	*(a)*		Alien/exotic;	1
	(b)		Any **two** from: • All the types of food eaten/ effect on biodiversity or wildlife/ if it would become a pest itself/ make sure it does not eat non target species; • If it survives/ reproduces (in Wales); • If it carries disease/ parasites; • If it has predators;	2
			Question 7 total	**[3]**

<table>
<tr><th colspan="3">Question</th><th>Marking details</th><th>Marks Available</th></tr>
<tr><td>8</td><td>(a)</td><td>(i)</td><td>Stem (cells);</td><td>1</td></tr>
<tr><td></td><td>(b)</td><td></td><td>
<table>
<tr><th>Function of cell division</th><th>Part of cell which controls cell division</th><th>Number of chromosomes in each cell</th></tr>
<tr><td>increases the number of cells; ✓</td><td>cytoplasm</td><td>twice as many as in the cells in Stage 1</td></tr>
<tr><td>increases the size of each cell</td><td>nucleus; ✓</td><td>same number as in the cells in Stage 1; ✓</td></tr>
<tr><td>keeps the number of cells the same</td><td>cell membrane</td><td>half as many as in the cells in Stage 1</td></tr>
</table>
</td><td>3</td></tr>
<tr><td></td><td>(c)</td><td></td><td>Destruction of {embryonic cells/ embryos/ potential life} ;</td><td>1</td></tr>
<tr><td></td><td></td><td></td><td>Question 8 total</td><td>[5]</td></tr>
</table>

Question			Marking details	Marks Available
9	*(a)*		There is less lactic acid (in blood) (than A); There is a faster {removal/ break down} of {lactic acid/payback of oxygen debt}; NOT faster return to normal	2
	(b)	(i)	3:1;	1
		(ii)	Should show some of each but more than 50% aerobic respiration; Accept alternative key if labels correct	1
	(c)		Glucose is completely broken down; Releases more energy/produces more ATP; NOT produces more energy	2
			Question 9 Total	**[6]**

Question			Marking details	Marks Available
10	*(a)*		• Osmosis; • Movement of water into potato; • From where water is in high concentration to low concentration/ down concentration gradient; • Via semi permeable membrane; *3rd marking point linked to 2nd marking point*	4
	(b)		Water {molecules/ particles} {move faster at higher temperature/ have more energy};	1
	(c)		{Rate of/ volume} water passing in equals {Rate of/volume} of water passing out/no net {movement/flow} of water; NOT concentration of water is the same inside and outside the potato/dynamic equilibrium	1
			Question 10 Total	**[6]**

Question			Marking details	Marks Available
11			**Indicative content** plants use chlorophyll to absorb light energy. convert carbon dioxide and water into glucose and oxygen glucose can be changed to starch and stored used to make cellulose/ proteins light, temperature and carbon dioxide are limiting factors **5 – 6 marks** The candidate constructs an articulate, integrated account correctly linking relevant points, such as those in the indicative content, which shows sequential reasoning. The answer fully addresses the question with no irrelevant inclusions or significant omissions. The candidate uses appropriate scientific terminology and accurate spelling, punctuation and grammar. **3 – 4 marks** The candidate constructs an account correctly linking some relevant points, such as those in the indicative content, showing some reasoning. The answer addresses the question with some omissions. The candidate uses mainly appropriate scientific terminology and some accurate spelling, punctuation and grammar. **1 – 2 marks** The candidate makes some relevant points, such as those in the indicative content, showing limited reasoning. The answer addresses the question with significant omissions. The candidate uses limited scientific terminology and inaccuracies in spelling, punctuation and grammar. **0 marks** The candidate does not make any attempt or give a relevant answer worthy of credit. **Question 11 Total**	6 **[6]**

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