

# Mark Scheme (Results)

Summer 2018

Pearson Edexcel GCSE Biology (1BI0) Paper 2H Paper 2

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#### General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Mark schemes have been developed so that the rubrics of each mark scheme reflects the characteristics of the skills within the AO being targeted and the requirements of the command word. So for example the command word 'Explain' requires an identification of a point and then reasoning/justification of the point.

Explain questions can be asked across all AOs. The distinction comes whether the identification is via a judgment made to reach a conclusion, or, making a point through application of knowledge to reason/justify the point made through application of understanding. It is the combination and linkage of the marking points that is needed to gain full marks.

When marking questions with a 'describe' or 'explain' command word, the detailed marking guidance below should be consulted to ensure consistency of marking.

Assessment Objective		Command Word	
Strand	Element	Describe	Explain
A01*		An answer that combines the marking points to provide a logical description	An explanation that links identification of a point with reasoning/justification(s) as required
AO2		An answer that combines the marking points to provide a logical description, showing application of knowledge and understanding	An explanation that links identification of a point (by applying knowledge) with reasoning/justification (application of understanding)
AO3	1a and 1b	An answer that combines points of interpretation/evaluation to provide a logical description	
AO3	2a and 2b		An explanation that combines identification via a judgment to reach a conclusion via justification/reasoning
AO3	3a	An answer that combines the marking points to provide a logical description of the plan/method/experiment	
AO3	3b		An explanation that combines identifying an improvement of the experimental procedure with a linked justification/reasoning

<sup>\*</sup>there will be situations where an AO1 question will include elements of recall of knowledge directly from the specification (up to a maximum of 15%). These will be identified by an asterisk in the mark scheme.

Question number	An	swer	Additional guidance	Mark
1(a)	Р	glomerulus	accept capillary /capillaries	(2)
	Q	bowman's capsule	accept renal capsule	AO 1 1
			accept correct phonetic spelling	

Question number	Answer	Additional guidance	Mark
1(b)(i)	Substitution: 4.5 x 10 <sup>6</sup> – 8.0 x 10 <sup>3</sup> (1)	accept 4492000	(2)
	Evaluation: 4.5 x 10 <sup>6</sup> / 4.492 X 10 <sup>6</sup>		AO 2 1
		accept correct answer no working for full marks	

Question number	Answer	Mark
1(b)(ii)	An explanation linking <b>two</b> of the following:	(2)
	<ul> <li>{red blood cells/ white blood cells / proteins} {are not present in the filtrate / cannot be filtered into the nephron} (1)</li> </ul>	AO 2 1
	<ul> <li>because they are too large to pass {through the membrane/into the nephron} (1)</li> </ul>	
	OR	
	glucose is found in the filtrate (1)	
	<ul> <li>because it is small enough to pass {through the membrane / into the nephron} (1)</li> </ul>	

Question number	Answer	Additional guidance	Mark
1(c)	ADH / Anti diuretic hormone /vasopressin	accept phonetic spellings of anti diuretic hormone	<b>(1)</b> AO 1 1

## **Total for Question 1 = 7 marks**

Question number	Answer	Mark
2(a)(i)	C a cell wall	(1)
	1. The only correct answer is C	AO 1 1
	<b>A</b> is not correct because both plant and animal cells have cytoplasm	
	<b>B</b> is not correct because both plant and animal cells have a cell membrane	
	<b>D</b> is not correct because both plant and animal cells have mitochondria	

Question number	Answer	Additional guidance	Mark
2(a)(ii)	Substitution 20.5 x 400 (1)	award full marks for correct answer with no working	<b>(2)</b> AO 1 2
	Evaluation 8 200 (µm)		

Question number	Answer	Additional guidance	Mark
2(a)(iii)		award full marks for correct answer with	(2)
		no working	AO 2 2
	Substitution		
	$(3.08 \div 400) = 0.0077 (1)$	accept 0.008	
	Evaluation 7.7 x 10 <sup>-3</sup>	accept 8.0 x 10 <sup>-3</sup>	

Question number	Answer	Additional guidance	Mark
2(b)(i)	An answer that combines <b>three</b> of the following points to provide		(3)
	a method:		AO 3 3a
	<ul> <li>measure the length of the tissue (1)</li> </ul>		
	<ul><li>add masses / mass (1)</li></ul>		
	<ul> <li>remove the mass and measure length of the tissue (1)</li> </ul>	accept remove the mass and see if the tissue returns to its original size	
	<ul> <li>repeat until the tissue no longer returns to its original length (1)</li> </ul>		

Question number	Answer	Additional guidance	Mark
2(b)(ii)	Any one from:	ignore standard lab rules	(1)
			AO 2 2
	• wash hands (1)		
	• wear gloves (1)	accept cover open wounds	
	<ul> <li>sterilise the apparatus after use / disinfect working area (1)</li> </ul>		

**Total for Question 2 = 9 marks** 

Question number	Answer	Additional guidance	Mark
3(a)(i)	Any one from:	ignore to prevent drying out	(1)
	<ul><li>keep leaf peel flat (1)</li></ul>		AO 2 2
	<ul><li>keep leaf peel in place (1)</li></ul>		
	, , , , , , , , , , , , , , , , , , , ,		
	protect the (objective) lens (1)		
	<ul> <li>protect the specimen (1)</li> </ul>		

Question number	Answer	Additional guidance	Mark
3(a)(ii)	An explanation linking <b>two</b> of the following:		(2)
	<ul> <li>the leaf peel is thin / leaf is too thick (1)</li> </ul>		AO 2 2
	<ul> <li>as the leaf peel allows light to pass through it/the leaf would not allow light to shine through it (1)</li> </ul>	accept leaf would be opaque	
	<ul> <li>to enable the {stomata / cells/ guard cells} to be identified (1)</li> </ul>	accept to see stomata / cells	

Question number	Answer	Additional guidance	Mark
3(b)(i)	3 / three		<b>(1)</b> AO 2 2

Question number	Answer	Additional guidance	Mark
3(b)(ii)	A description including <b>three</b> of the following points:		(3)
	guard cells (1)		AO 1 1
	• take in water (1)		
	• by osmosis (1)		
	(guard cells) become turgid/change shape/swell (1)	accept uneven thickness of guard cell walls leads to bulging	

Question number	Answer	Additional guidance	Mark
3(b)(iii)	A explanation linking <b>two</b> of the following points:		<b>(2)</b> AO 2 1
	<ul> <li>no stomata (in the upper surface) to reduce water loss (1)</li> </ul>	accept stomata (on the lower surface) {allow / reduce} water loss	
		accept more water loss if stomata on top	
	<ul> <li>water loss during transpiration / evaporation (1)</li> </ul>		
	OR		
	<ul> <li>stomata (on the lower surface) allow gas exchange (1)</li> </ul>	accept the idea of movement of oxygen or carbon dioxide for gas exchange	
	<ul> <li>gas exchange is needed for photosynthesis (1)</li> </ul>		

Total for Question 3 = 9 marks

Question number	Answer	Additional guidance	Mark
4(a)(i)	Pyramid of biomass		(2)
	<ul> <li>pyramid shape with labels (1)</li> <li>correct proportions: chipmunks must be {equal to/less than} 50% of the acorns, wild dogs must be {equal to/less than} 50% of chipmunks (1)</li> </ul>	accept names in bars or triangle for this mp  must be bars: reject triangle against this mp.	AO 2 2

Question number	Answer	Mark
4(a)(ii)	An answer that combines <b>two</b> of the following points of application and understanding to provide a logical description:	(2) AO 2 1
	few chipmunks are { eaten / killed } (due to the lack of predators) (1)	7.0 2 1
	<ul> <li>so the number of chipmunks (in France) will increase (1)</li> </ul>	
	therefore more chipmunks can reproduce (1)	

Question number	Answer	Additional guidance	Mark
4(a)(iii)	Substitution 97500 ÷ 100 = 975 (1) Evaluation 975 x 9.5 = 9262.5 (1) Nearest whole number 9 263 (kJ) OR 97500 x 0.095 (1) = 9262.5 (kJ) Nearest whole number 9263 (kJ)	award full marks for correct answer with no working	(3) AO 1 2

Question number	Answer	Additional guidance	Mark
4(b)(i)	Substitution 27 000 - 9 500 = 17 500 (1)	award full marks for correct answer with	(2)
	Evaluation	no working	AO 2 1
	Evaluation		
	$(17500 \div 9500) \times 100 = 184.2 /$	accept answer to	
	184 (%)	any number of	
		decimal places	
		rounded correctly	
		from:	
		184.2105263158	

Question number	Answer	Mark
4(b)(ii)	An explanation including the following:	(2)
	<ul> <li>(the number chipmunks in the wild have increased)</li> <li>{so the ticks have more food /there are more ticks} (1)</li> </ul>	AO 2 1
	<ul> <li>so humans are more likely to be bitten (and contract Lyme disease) (1)</li> </ul>	

### **Total for Question 4 = 11 marks**

Question number	Answer	Additional guidance	Mark
5(a)	A description including the following:	accept the blood flow through the brain decreases a small amount	(3) AO 3 1a AO 3 1b
	<ul> <li>the blood flow through the {muscles /heart} is increased during exercise (1)</li> <li>the blood flow through the digestive system is decreased during exercise (1)</li> </ul>		

Question number	Answer	Additional guidance	Mark
5(b)	An explanation that links <b>two</b> of the following:	accept heart for muscle	(2)
	there is increased blood flow to the muscles (1)	accept there is a {reduced /restricted} blood flow through the digestive system	AO 2 1
	<ul> <li>to allow for { respiration/ release of energy} (in the muscles) (1)</li> </ul>	accept to supply oxygen/glucose to the muscles/remove carbon dioxide	

Question number	Answer	Mark
5(c)	B left ventricle	(1)
	1. The only correct answer is B	AO 1 1
	<b>A</b> is not correct because the left atrium receives blood from the pulmonary vein	
	<b>C</b> is not correct because The right atrium receives blood from the vena cava	
	<b>D</b> is not correct because the right ventricle has deoxygenated blood	

Question number	Answer	Additional guidance	Mark
5(d)	Substitution	full marks for correct answer no working	(2)
	4.9 ÷ 0.07 / 4 900 ÷ 70 (1)	accept 4.9 ÷ 70 = 0.07 for	AO 12
	Evaluation	1 mark	
	70 (beats per minute)		

Total for Question 5 = 8 marks

Question number	Answer	Mark
6(a)(i)	As body temperature rises the oxygen consumption of the	(1)
	iguana is increased	AO 3 1a

Question number	Answer	Mark
6(a)(ii)	An explanation linking the following:	(3)
	<ul> <li>{chemical/enzyme/metabolic} reactions are increased at higher temperatures (1)</li> </ul>	AO 3 2a AO 3 2b
	(more) respiration occurs (1)	
	(more respiration) requires oxygen (1)	

Question number	Answer	Mark
6(a)(iii)	An explanation linking the following:	(2)
	<ul> <li>(panting) causes water loss (1)</li> <li>causing evaporation / removal of latent heat (so reduction in temperature) (1)</li> </ul>	AO 1 1

Question number	Answer	Mark
6(b)(i)	C hypothalamus	(1)
	1. The only correct answer is C	AO 1 1
	<b>A</b> is not correct because the cerebellum is the main centre for balance not thermoregulation	
	<b>B</b> is not correct because the cerebral cortex is the main area for higher thinking skills and logic not thermoregulation	
	<b>D</b> is not correct because the pituitary gland releases hormones it is not the thermoregulatory centre	

Question number	Answer	Additional guidance	Mark
6(b)(ii)	An explanation linking the following:		(4)
	<ul> <li>vasodilation acts to cool the body down (1)</li> </ul>		AO 1 1
	more blood flows near the surface of the skin (1)	accept capillaries widen near the surface of the skin. reject moving blood vessels.	
	<ul> <li>less blood flows through the shunt valve (1)</li> </ul>		
	<ul> <li>causing increased thermal energy loss (1)</li> </ul>	accept energy loss by <b>radiation</b>	

Total for Question 6 = 11 marks

Question number	Answer		Mark
7(a)(i)	<ul> <li>set up the apparatus as shown in figure 13 (1)</li> </ul>	accept set up with a seedling on the	(2)
		cotton wool	AO 2 2
	<ul> <li>replace the nitrate solution with (distilled) water / do not add nitrate pellet (1)</li> </ul>	ignore just idea of controlling the volume of solution	

Question number	Answer	Mark
7(a)(ii)	B oxidising	(1)
	1. The only correct answer is B	AO 1 1
	<b>A</b> is not correct because this is not the symbol for flammable	
	<b>C</b> is not correct because the symbol for corrosive is a hand with acid	
	<b>D</b> is not correct because the symbol for explosive has an explosion on it	

Question number	Answer	Additional guidance	Mark
7(a)(iii)	measure the (change in) mass (1)	accept idea of looking at the number/size of leaves	(1) AO 3 3b
		the seedling	

Question number	Answer		Mark
7(b)(i)	An explanation linking:		(2)
	<ul> <li>largest amount of growth seen with the highest concentration of nitrates / the higher the concentration of nitrates the more growth /ORA (1)</li> </ul>	accept faster growth for more growth accept nitrates stimulate growth	AO 3 2a AO 3 2b
	<ul> <li>nitrates are needed to make proteins (1)</li> </ul>	accept amino acids	

Question number	Answer	Additional guidance	Mark
7(b)(ii)	An explanation that links the following:		(3)
	by the roots/ root hair cells (1)		AO 2 1
	AND		
	by diffusion (1)	reject osmosis	
	<ul> <li>from a high concentration to a low concentration / down the concentration gradient (1)</li> </ul>		
	OR		
	• by active transport (1)	reject osmosis	
	<ul> <li>from a low concentration to a high concentration / against the concentration gradient / using energy (1)</li> </ul>		

Question number	Answer	Additional guidance	Mark
7(c)	<ul> <li>An explanation linking three of the following:         <ul> <li>to increase nitrate/ammonia levels in the soil (1)</li> <li>because nitrogen fixing bacteria live in {colonies/root nodules} on the roots of pea and bean plants</li> <li>(nitrogen-fixing bacteria) produce {nitrates/ nitrogen compounds / ammonia} (1)</li> <li>from nitrogen {atmospheric/gas} (1)</li> </ul> </li> </ul>	ignore live in the roots	(3) AO 1 1

**Total for Question 7 = 12 marks** 

Question number	Answer	Additional guidance	Mark
8(a)(i)	An answer linking the following:		(2)
	<ul> <li>as light intensity increases so does the rate of photosynthesis (1)</li> </ul>		AO 3 1a AO 3 1b
	<ul> <li>(it levels off) when light intensity ceases to be a limiting factor (1)</li> </ul>	accept idea of another factor limiting the rate of photosynthesis accept named factor	

Question number	Answer		Mark
8(a) (ii)	An explanation linking <b>two</b> of the following:  • as temperature increases so does the rate of photosynthesis { as enzymes can catalyse more reactions / more collisions occur} (1)  • maximum rate of	accept more enzyme-substrate complexes form	(2) AO 3 2a AO 3 2b
	<ul> <li>photosynthesis at the optimum temperature for enzymes (1)</li> <li>{above the optimum/at high temperatures} enzymes become denatured (and photosynthesis decreases) (1)</li> </ul>	accept active site changes shape for denatured	

Question number	Answer	Mark
8(b)	D inversely proportional to the distance from a light source	(1)
	1. The only correct answer is D	AO 1 1
	<b>A</b> is not correct because light intensity is not directly proportional to photosynthesis	
	<b>B</b> is not correct because light intensity is not just inversely proportional to photosynthesis it is an inverse square.	
	<b>C</b> is not correct because temperature is not directly proportional to photosynthesis	

Question	Indicative content	Mark
number		
*8(c)	Answers will be credited according to candidate's deployment of knowledge and understanding of the material in relation to the qualities and skills outlined in the generic mark scheme.	(6) AO 1 1
	The indicative content below is not prescriptive and candidates are not required to include all the material that is indicated as relevant. Additional content included in the response must be scientific and relevant.  AO1 (marks)	
	Transpiration	
	<ul> <li>the movement of water</li> <li>from the root through the plant</li> <li>through the lignified cells/dead cells</li> <li>of the xylem</li> </ul>	
	<ul> <li>driven by evaporation of water from the leaves</li> <li>through the stomata</li> <li>flow is only in one direction</li> </ul>	
	<ul><li>by capillary action</li><li>according to the cohesion-tension theory</li><li>Translocation</li></ul>	
	<ul><li>the movement of sugars from the leaves</li><li>through the plant</li><li>as sucrose</li></ul>	
	<ul> <li>through the living sieve cells</li> <li>of the phloem</li> <li>flow is bidirectional</li> </ul>	
	to sinks in the plant where the sucrose is needed	
Level	Descriptor	
	No rewardable material.	
Level 1	<ul> <li>Demonstrates elements of biological understanding, some which is inaccurate. Understanding of scientific ideas lacks</li> <li>Presents an explanation with some structure and coheren</li> </ul>	s detail.
Level 2	<ul> <li>Demonstrates biological understanding, which is mostly rebut may include some inaccuracies. Understanding of scie ideas is not fully detailed and/or developed.</li> <li>Presents an explanation that has a structure which is most</li> </ul>	entific
	clear, coherent and logical.	<i>,</i>
Level 3	<ul> <li>Demonstrates accurate and relevant biological understand throughout. Understanding of the scientific ideas is detailed fully developed.</li> <li>Presents an explanation that has a well-developed structure.</li> </ul>	ed and
	is clear, coherent and logical.	

**Total for Question 8 = 11 marks** 

Question number	Answer	Mark
9(a)(i)	An explanation linking <b>two</b> of the following:	(2)
	<ul> <li>women over the age of 50 have low levels of oestrogen (1)</li> </ul>	AO 3 1a AO 3 1b
	<ul> <li>(high levels of) oestrogen are needed for LH to be released / levels of oestrogen are too low for LH to be released (1)</li> </ul>	
	(a surge of) LH is needed for ovulation to occur (1)	

Question number	Answer	Additional guidance	Mark
9(a)(ii)	An explanation linking:		(2)
	low levels of oestrogen (1)	reject progesterone	AO3 2a AO3 2b
	<ul> <li>(low levels of oestrogen) stops the lining of the uterus building up / so no lining to be lost (1)</li> </ul>		

<b>9(a)(iii)</b> Ar			
	<ul> <li>an explanation linking the following:</li> <li>causes the release of FSH (1)</li> <li>stimulating eggs to develop (in the follicles/ovary) (1)</li> </ul>	accept stimulates follicles to	<b>(2)</b> AO 2 1
Of	<ul><li>OR</li><li>causes the release of LH (1)</li><li>stimulating ovulation (1)</li></ul>	mature	

Question number	Answer	Mark
9(a)(iv)	A corpus luteum	(1)
	1. The only correct answer is A	AO 1 1
	<b>B</b> is not correct because The pituitary gland releases the hormones LH and FSH not progesterone	
	<b>C</b> is not correct because the thyroid gland releases TSH and thyroxine not progesterone	
	<b>D</b> is not correct because the uterus does not release any hormones it is the site of the action of progesterone	

Question number	Answer	Additional guidance	Mark
9(b)	An explanation linking four of the following:  • adrenalin acts to increase heart rate / blood pressure (1)  • so there is increased blood flow (1)  • causes the release of glucose from glycogen (1)	accept more glucose released from	(4) AO 1 2
	<ul> <li>so increased {oxygen/glucose} (1)</li> <li>increased the rate of respiration (1)</li> <li>to release energy (for the working muscles/body) (1)</li> </ul>	accept ATP for energy	

**Total for Question 9 = 11 marks** 

Question number	Answer	Additional guidance	Mark
10(a)(i)	Any <b>one</b> from:		(1)
	<ul><li>direction of light (1)</li><li>ensure equal light intensity around the plant (1)</li></ul>		AO 2 2

Question number	Answer	Mark
10(a)(ii)	Any <b>one</b> from:	(1)
	<ul> <li>{the substance that causes shoot growth/auxin} is found in the tip of the shoot (1)</li> <li>the tip controls growth (1)</li> <li>the shoot grows from the tip(1)</li> </ul>	AO 3 1b

Question number	Answer	Mark
10(a)(iii)	A auxin	(1)
	1. The only correct answer is A	AO 1 1
	<b>B</b> is not correct because ethane is responsible for fruit ripening	
	<b>C</b> is not correct because gibberellins are used for seed germination, fruit formation and seedless fruit	
	<b>D</b> is not correct because chlorophyll is the green pigment found in chloroplasts which is the main site for photosynthesis it does not promote shoot growth	

Question number	Answer	Mark
10(a)(iv)	An explanation that links two of the following:	(2)
	<ul> <li>repeat the experiment with more plant shoots (1)</li> <li>in order to calculate the mean/improve validity / identify anomalies (1)</li> </ul>	AO 3 3b
	<ul> <li>control a variable e.g. temperature, water (1)</li> <li>in order to improve validity / make the results comparable (1)</li> </ul>	
	<ul> <li>place something between the tip and the shoot (e.g. agar / mica)/ cover the tip(1)</li> <li>to see if it is a chemical response from the tip. (1)</li> </ul>	
	OR	
	<ul><li>set up a control / shoot with no tip cut off (1)</li><li>to make the results more comparable (1)</li></ul>	

Question number	Indicative content	Mark
*10(b)	Answers will be credited according to candidate's deployment of knowledge and understanding of the material in relation to the qualities and skills outlined in the generic mark scheme.  The indicative content below is not prescriptive and candidates are not required to include all the material that is indicated as relevant. Additional content included in the response must be scientific and relevant.	(6) AO 1 1 AO 2 1
	<ul> <li>Plant adaptations</li> <li>grass is flexible so does not break in the windy conditions</li> <li>good root structure to prevent being uprooted in the windy conditions</li> <li>long thin leaves to reduce wind damage / air resistance</li> </ul>	
	<ul> <li>leaf structure</li> <li>leaf is rolled to trap air inside</li> <li>thick waxy cuticle to prevent water loss</li> <li>by evaporation / transpiration</li> <li>no stomata on the upper surface to prevent water loss</li> <li>stomata in pits on the underside of the leaf to retain moist air and reduce water loss</li> <li>hairs on the lower surface reduce air movement</li> </ul>	

Level	Mark	Descriptor	
	0	No rewardable material.	
Level 1	1–2	<ul> <li>Demonstrates elements of biological understanding, some of which is inaccurate. Understanding of scientific ideas lacks detail.</li> <li>Presents an explanation with some structure and coherence.</li> </ul>	
Level 2	3–4	<ul> <li>Demonstrates biological understanding, which is mostly relevant but may include some inaccuracies.         Understanding of scientific ideas is not fully detailed and/or developed.     </li> <li>Presents an explanation that has a structure which is mostly clear, coherent and logical.</li> </ul>	
Level 3	5–6	<ul> <li>Demonstrates accurate and relevant biological understanding throughout. Understanding of the scientific ideas is detailed and fully developed.</li> <li>Presents an explanation that has a well-developed structure which is clear, coherent and logical.</li> </ul>	

Total for Question 10 = 11 marks

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