

Mark Scheme (Results)

Summer 2022

Pearson Edexcel GCSE In Biology (1BI0) Paper 1F

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## **General Marking Guidance**

- 1. All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- 2. Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- 3. Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- 4. There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- 5. 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.
- 1. Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- 2. When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- 3. 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.

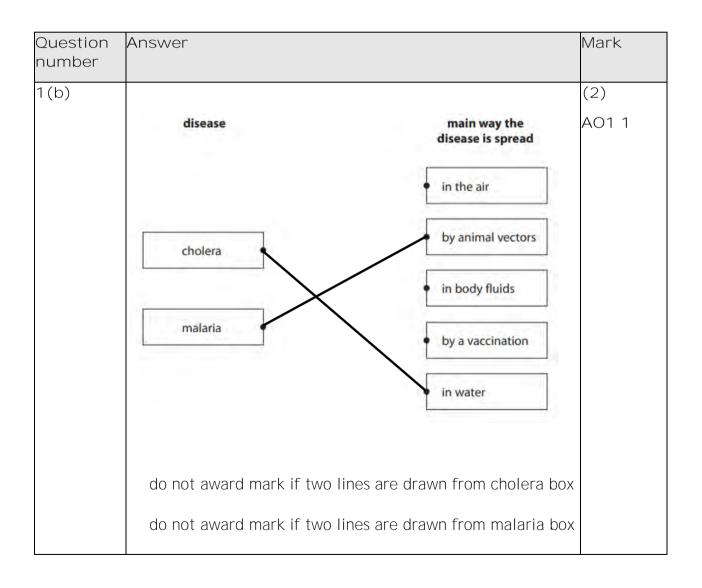
Explain questions can be asked across all AOs. The distinction comes whether the identification is via a judgment made to reach a conclusion, or, making a point through application of knowledge to reason/justify the point made through application of understanding. It is the combination and linkage of 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
AO1		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	За	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

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Question number	Answer	Mark
1(a)	A Pathogen	(1)
	The only correct answer is A	AO1 1
	B is incorrect because a culture does not cause disease.	
	C is incorrect because antibiotics do not cause disease.	
	D is incorrect because platelets do not cause disease.	



Question	Answer	Additional guidance	Mark
number			
` , ` ,	all points plotted correctly ± one small square		(1) AO2 2

Question number	Answer	Additional guidance	Mark
	straight line of best fit going through all the plotted points ± two small squares.	ignore any extrapolation	(1) AO2 2

Question number	Answer	Additional guidance	Mark
1(c)(iii)	A description including two from:	1.40.00 1 1 1 /	(2)
		accept 10 °C is below / less (than the 20 °C line)	AO3
	• 10°C is slower (than growth at 20°C) (1)		1a 1b
	• 10°C is linear /straight (1)		
	· /	differences must be in 1000s	
		accept reverse arguments for 20°C	

(Total marks for question 1 = 7 marks)

Question number	Answer	Additional guidance	Mark
2(a)(i)	A description including two from:		(2)
	• by hitting it (1)		AO2 1
	<ul> <li>with another stone / rock / flint / something hard (1)</li> </ul>	not just another object	
	<ul> <li>to knock flakes /chips off (1)</li> </ul>		
		accept knapped (2)	

Question number	Answer	Mark
2(a)(ii)	B tool Q is more pointed than tool P	(1)
	The only correct answer is B	AO3 2a
	A is incorrect because colour does not tell you how advanced the maker of the tool was.	
	C is incorrect because colour does not tell you how advanced the maker of the tool was.	
	D is incorrect because Q is more pointed than P.	

Question number	Answer	Mark
2(a)(iii)	<ul><li>natural (1)</li><li>mutate (1)</li><li>Must be in the correct order</li></ul>	(2) AO1 1
	Reject migrate against either mark	

Question number	Answer	Additional guidance	Mark
2(b)	<ul> <li>A description including two from:         <ul> <li>compare with other tools / fossils (that have already been dated) (1)</li> </ul> </li> <li>from the (layer of) rock in which they are found / how deep down each was found (1)</li> <li>radiometric dating / description of radiometric dating (1)</li> <li>comparing to other finds (of known age) from the same layer (of rock) (1)</li> </ul>	accept compare to other tools that are less well / better made	(2) AO2 1

(Total marks for question 2 = 7 marks)

Question number	Answer	Mark
3 (a)(i)	A Charles Darwin	(1)
	The only correct answer is A	AO1 1
	B is incorrect because Robert Hooke did not write On the Origin of Species	
	C is incorrect because Richard Leakey did not write On the Origin of Species	
	D is incorrect because Gregor Mendel did not write On the Origin of Species	

Question number	Answer	Mark
3 (a)(ii)	D new species evolve over many generations	(1)
	The only correct answer is D	AO1 1
	A is incorrect because humans are related to other groups of animals	
	B is incorrect because different species have different genes	
	C is incorrect because dinosaurs did not evolve because of a meteor	

Question number	Answer	Additional guidance	Mark
	wider / stubbier	accept whale humerus is less likely to break / is stronger accept reverse arguments for humerus of human	(1) AO2 1

Question number	Answer	Additional guidance	Mark
3 (b)(ii)		the horse has 3 phalanges whereas the human has 14 phalanges accept humans have smaller phalanges / the horse phalanges are thicker / stronger accept reverse arguments for human	(1) AO2 1

Question number	Answer	Additional guidance	Mark
	<ul> <li>A description linking four from:</li> <li>there was variation in beak shape / mutations occurred that changed the shape of the beak (in some finches) (1)</li> <li>thinner beaks are more suited to catching / extracting { the food available for finch A /insects / finch A's environment} (1)</li> <li>the birds with thinner beaks { outcompeted / were more successful than / more likely to survive / obtained more food } (those with thicker beaks) (1)</li> <li>(more) birds with thinner beaks reproduced and passed on alleles for thinner beaks (1)</li> </ul>	accept reverse arguments	(4) AO2 1
	<ul> <li>this occurs over many generations</li> <li>/ a long period of time (1)</li> </ul>		

Question number	Answer	Mark
4(a)	A diffusion	(1)
	The only correct answer is A	AO1 1
	B is incorrect because respiration is the release of energy from glucose.	
	C is incorrect because osmosis is the movement of water, not alcohol.	
	D is incorrect because protein synthesis is how proteins are made.	

Question number	Answer	Additional guidance	Mark
	5 7	award full marks for	(3)
		correct answer with no working	AO3
	1.8 (1)		1a 1b
	Evaluation		
	3.0 - 1.8 = 1.2 (units higher of developing cirrhosis of the liver) (1)	ecf for (3 - 1.7 or 3 - 1.9)	

Question number	Answer	Additional guidance	Mark
4(b)(ii)	An answer including two of the following:		(2) AO2 1
	do not drink alcohol (1)	accept data from graph / manipulated data from graph reflecting a reduction in drink	
	drink alcohol with meals / do not drink it on its own (1)		

Question	Answer	Additional guidance	Mark
number			
4(c)(i)		accept on DNA / it is part of DNA	(1) AO1 1
		accept in mitochondria	

Question number	Answer	Additional guidance	Mark
4(c)(ii)	allele because person E must	accept because person E is ff / homozygous recessive	(2) AO2 2

Question number	Answer	Additional guidance	Mark
rumbei			
4(c)(iii)	ff	accept: homozygous	(1)
	both letters must be lower case	recessive	AO2 1
		accept: double	
		recessive	
		accept: 'two small fs'	

(Total marks for question 4 = 10)

Question number	Answer	Mark
	lack of need to find a {mate / partner} / rapid reproductive cycle / plantlet has the same characteristics as the parent plant (so should be able to survive in that environment) / can quickly colonise an area.	(1) AO1 1

Question number	Answer	Additional guidance	Mark
5(b)(i)	A description including two from:		(2)
		accept plantlets are	AO3
	l	produced between 15°C and 25°C	1a 1b
	· ·	accept 20°C is the best temperature (for producing plantlets)	
	<ul> <li>the number of plantlets decreases above 20 °C (1)</li> </ul>		

Question number	Answer	Mark
5(b)(ii)	D grow five of these plants at each temperature	(1)
	The only correct answer is D	AO3 3b
	A is incorrect because a plant would not grow at 0° C	
	B is incorrect because growing the plants in different soils would introduce a second variable	
	C is incorrect because growing a different species of plant would introduce a second variable	

Question number	Answer	Additional guidance	Mark
5(c)	An explanation including two of:		(2)
	• inherit different alleles (1)	accept gets DNA from different plants	AO1 1
	<ul> <li>(which gives greater)     variation in (species) /     structures / characteristics /     example of a characteristic     (1)</li> </ul>		
	<ul> <li>(so) will be able to exploit / survive / grow in different {conditions / environments}</li> <li>(1)</li> </ul>		

Question number	Answer	Additional guidance	Mark
5(d)	An explanation including three from:  • select plants L and M (1)  • because these have the desired alleles / the offspring will inherit the desired alleles (1)  • L because of large white flowers and large leaves (1)  • M because of striped leaves (1)		(3) AO3 2a 2b

(Total marks for question 5 = 9)

Question number	Answer	Mark
Harriber		
6(a)(i)	C 50 <sup>th</sup> to 75 <sup>th</sup>	(1)
	The only correct answer is C	AO3 1a
	A is incorrect because his height percentile is 50 - 75	
	B is incorrect because his height percentile is 50 - 75	
	D is incorrect because his height percentile is 50 - 75	

Question number	Answer	Mark
6(a)(ii)	<ul> <li>Any one from:</li> <li>to monitor height / growth (over time) (1)</li> <li>to compare the growth of an individual against the standard growth pattern (1)</li> </ul>	(1) AO1 1

Question number	Answer	Additional guidance	Mark
6(b)(i)	A description including any two from:  tail / flagellum (1)  acrosome / sac with enzymes (1)  (many) mitochondria (1)  streamlined (1)  haploid / has 23 chromosomes (1)	accept has enzymes to digest the membrane around the egg	(2) AO1 1

Question number	Answer			Mark
6(b)(ii)	b)(ii) Award one mark for each correct square in the table.			(4) AO1 1
		mitosis	meiosis	
	number of daughter cells produced	2	4	
	number of chromosomes in each daughter cell	46 / <u>23 pairs</u>	23	
	For mitosis (number own, must be qualif		) ignore 23 on its	

Question number	Answer	Mark
6(c)(i)	A meristem	(1)
	The only correct answer is A	AO1 1
	B is incorrect because root hair cells are not the area of the root where many cells are dividing by mitosis.	
	C is incorrect because xylem is not the area of the root where many cells are dividing by mitosis.	
	D is incorrect because phloem is not the area of the root where many cells are dividing by mitosis.	

Question number	Answer	Additional guidance	Mark
6(c)(ii)	<ul> <li>An answer including three of the following</li> <li>add {enzyme (solution) / plant root cells} to glucose (solution) (1)</li> <li>test for presence of starch (1)</li> <li>test {each minute / at set time intervals} / time until a positive result for starch (1)</li> <li>repeat at more than one pH / (in buffers) of different pH values (1)</li> <li>reference to controlling one variable, e.g. same volume of solutions / same temperature (1)</li> </ul>	accept use iodine	(3) AO3 3a

(Total marks for question 6 = 12)

Question number	Answer	Mark
7(a)(i)	C structure S	(1)
	The only correct answer is C	AO1 1
	A is incorrect because cataracts do not develop in the retina.	
	B is incorrect because cataracts do not develop in the sclerotic.	
	D is incorrect because cataracts do not develop in the cornea.	

Question number		Additional guidance	Mark
7(a)(ii)	A description including two of:		(2)
	• cut into the eye / use a laser (to open the eye) (1)		AO1 1
	• replace (old / opaque) lens (1)		
	<ul> <li>with a new clear artificial / plastic / glass lens (1)</li> </ul>		

Question number	Answer	Additional M guidance	Mark
7(b)(i)	An explanation linking:	(	3)
	• the pupil gets smaller (1)	Δ	AO1 1
	• (the) iris (1)		
	• gets bigger (1)		
		accept (circular) muscles contract (1)	
		accept radial muscles relax (1)	

Question	Indicative content	Mark
number		
7 (b)(ii)	AO2	(6)
	why distant objects cannot be seen clearly	AO2 1
	<ul> <li>person is near-sighted / short-sighted / has myopia</li> <li>light is not focused on retina</li> <li>light is focused in front of the retina</li> <li>the eyeball is too long</li> <li>the cornea is too curved / convex /converging</li> <li>the lens cannot be made thin enough</li> <li>so the light is refracted too much</li> <li>how the problem can be corrected</li> <li>go to the opticians</li> <li>go to have your eyesight tested</li> <li>have glasses / contact lenses prescribed</li> <li>glasses / contact lenses need to be concave / diverging</li> <li>have laser treatment (of cornea)</li> <li>cornea needs to be less convex</li> <li>so light is refracted less before it enters the eye</li> <li>so light is focused on the retina</li> </ul>	

Level	Mark	Descriptor
	0	No rewardable material.
Level 1	1-2	Demonstrates elements of biological understanding, some of which is accurate. Understanding of scientific, enquiry, techniques and procedures lacks detail.
		<ul> <li>Presents a description which is not logically ordered and with significant gaps.</li> </ul>
Level 2	3-4	<ul> <li>Demonstrates biological understanding, which is mostly relevant but may include some inaccuracies.         Understanding of scientific ideas, enquiry, techniques and procedures is not fully detailed and/or developed.</li> <li>Presents a description of the procedure that has a structure which is mostly clear, coherent and logical with minor steps missing.</li> </ul>
Level 3	5-6	<ul> <li>Demonstrates accurate and relevant biological understanding throughout. Understanding of the scientific ideas, enquiry, techniques and procedures is detailed and fully developed.</li> <li>Presents a description that has a well-developed structure which is clear, coherent and logical.</li> </ul>

Level	Mark	Additional Guidance	General additional guidance The level is determined by the areas of indicative content covered within the response. The mark within the level is determined by the detail within each description.	
	0	No rewardable material		
Level 1	1-2	Makes a simple reference to the eye problem how it can be corrected.	Possible candidate responses  Wear glasses (bottom of level 1)  The light comes together in front of the retina (good level 1)	
Level 2	3-4	<ul> <li>Refers to both areas of indicative content</li> <li>OR</li> <li>Gives an explanation of the eye problem OR how to correct the eye problem.</li> </ul>	<ul> <li>Possible candidate responses</li> <li>The light is bent too much at the front of the eye so you need to wear glasses (bottom of level 2 – both areas referred to)</li> <li>Light is bent too much at the cornea so it focuses in front of the retina (good level 2 – an explanation of one area)</li> </ul>	
Level 3	5-6	<ul> <li>Refers to both areas of indicative content and gives a detailed explanation of one area</li> <li>OR</li> <li>Gives a detailed explanation of both areas of indicative content</li> </ul>	<ul> <li>Possible candidate responses</li> <li>The person is short-sighted. The cornea is too curved so the light is bent so that it is focused in front of the retina. Glasses need to be worn to correct the problem (bottom of level 3 – both areas and one in detail)</li> <li>The person is short-sighted because the cornea is too convex, so light is focused in front of the retina. To correct the problem you need glasses to make light meet on the retina (good level 3 – both areas explained)</li> </ul>	

(Total marks for question 7 = 12)

Question number	Answer	Additional guidance	Mark
8(a)	A description linking two from:		(2)
	weak (1)		AO1 2
	hydrogen bonds (1)	accept H bonds reject hydro bonds	
	complementary bases (1)	reject flydro borids	
	A - T / C - G (1)	accept the names of the base pair	

Question number	Answer	Additional guidance	Mark
8(b)(i)			(2)
	T T G A T T G C G T A A	accept lower	
	A A C T A A C G C A T T	case letters	AO2 1
	award 1 mark for all the As and Ts in the top line correctly paired (1)		
	award 1 mark for all the Cs and Gs in the top line correctly paired (1)		

Question number	Answer	Mark
8(b)(ii)	B 4	(1)
	The only correct answer is B	AO2 1
	A is incorrect because 3 amino acids would need 9 bases to be present	
	C is incorrect because 6 amino acids would need 18 bases	
	D is incorrect because 12 amino acids would need 36 bases	

Question number	Answer	Mark
8 (b)(iii)	D double helix	(1)
	The only correct answer is D	AO1 2
	A is incorrect because a DNA molecule is not three separate strands	
	B is incorrect because the DNA molecule consists of two strands	
	C is incorrect because a DNA molecule is a double helix not a single helix	

Question number	Answer	Additional guidance	Mark
8 (c)(i)		accept break down {the cell / nucleus/ cell wall}	(2) AO1 2

Question number	Answer	Additional guidance	Mark
8 (c)(ii)	to precipitate the DNA / because DNA is insoluble in ethanol	accept to see the DNA	(1) AO1 2

Question number	Answer	Additional guidance	Mark
8(c)(iii)	Any two from:		(2)
	mass of peas and beans (1)	accept weight	AO3
	method of crushing (1)		3a 3b
	<ul> <li>volume of { washing up liquid / detergent} / water (1)</li> </ul>		
	• volume of protease (1)		
	• temperature if qualified (1)	accept keep the temperature of the mixture the same	
	<ul> <li>volume of ethanol (1)</li> </ul>		
	• time if qualified (1)	accept time the mixture was heated / time exposed to ethanol	

(Total for question 8 = 11 marks)

Question	Answer	Mark
number		
9(a)(i)	Gonorrhoea	(1)
	accept phonetic spellings	A03 1a

Question number	Answer	Additional guidance	Mark
9(a)(ii)	66 000 000 ÷ 1000 = 66 000 (1)	award full marks for correct answer no working	(2) AO2 1
	(66 000) x 3.7 = 244 200 (people) or	accept answers in standard form	
	3.7 ÷ 1000 / 0.0037 (1)		
	(0.0037) x 66000000= 244200 (people)		
	or		
	(66 000 000 x 3.7) = 244 200 000 (1) (244 200 000 ÷ 1000) = 244 200 (people)	accept 244 200 to any incorrect magnitude for one mark	

Question number	Answer	Additional guidance	Mark
9(a)(iii)	Any one from:		(1)
	<ul> <li>it is {passed/spread} from person to person (1)</li> </ul>	accept it is spread by {sexual contact / body fluids}	AO1 1
	• caused by bacteria (1)	accept pathogen ignore caused by a virus	

Question number	Answer	Additional guidance	Mark
9(a)(iv)	Any one from:  • avoid sexual contact (1)		(1) AO2 1
		accept use a barrier form of contraception ignore protection / contraception	
	<ul> <li>screen people for an infection (1)</li> <li>treat the infection / give antibiotics (1)</li> </ul>		

Question number	Answer	Additional guidance	Mark
9(a)(v)	An explanation including the following:		(2) AO2 1
	<ul> <li>it is {killed / inhibited} by antibiotics (1)</li> </ul>	accept disrupt cell processes (in bacteria) / prevent (bacteria) reproducing	
	because chlamydia is caused by bacteria (1)	accept antibiotics are used to kill bacteria for 2 marks	

Question number	Indicative content	Mark
9(b)	Area A	(6) AO1 1
	<ul> <li>Area C</li> <li>memory lymphocytes / cells are produced</li> <li>which remain in the blood</li> <li>then if a secondary infection occurs</li> <li>memory lymphocytes produce antibodies faster / in greater numbers</li> <li>so the bacteria / pathogens are destroyed faster</li> </ul>	

Level	Mark	Descriptor
	0	No rewardable material.
Level 1	1-2	<ul> <li>Demonstrates elements of biological understanding, some of which is accurate. Understanding of scientific, enquiry, techniques and procedures lacks detail.</li> <li>Presents a description which is not logically ordered and with significant gaps.</li> </ul>
Level 2	3-4	<ul> <li>Demonstrates biological understanding, which is mostly relevant but may include some inaccuracies.         Understanding of scientific ideas, enquiry, techniques and procedures is not fully detailed and/or developed.</li> <li>Presents a description of the procedure that has a structure which is mostly clear, coherent and logical with minor steps missing.</li> </ul>
Level 3	5-6	<ul> <li>Demonstrates accurate and relevant biological understanding throughout. Understanding of the scientific ideas, enquiry, techniques and procedures is detailed and fully developed.</li> <li>Presents a description that has a well-developed structure which is clear, coherent and logical.</li> </ul>

Level	Mark	Additional Guidance	General additional guidance
			The level is determined by the areas of indicative content covered within
			the response.
			The mark within the level is determined by the detail and /or use of
			biological terms within each description.
	0	No rewardable material	,,
Level 1	1-2		Possible candidate responses
		Makes a simple reference to a feature of the immune	·
		response	White blood cells are involved
			White blood cells engulf bacteria
Level 2	3-4		Possible candidate responses
		Refers to two areas of indicative content	
			Bacteria have antigens on them and white blood cells make
		OR	antibodies
		Gives an explanation of one area of indicative content	Infection by bacteria causes more white blood cells to be  and the set of the set o
			produced. Lymphocytes make antibodies which inactivate
			antigens on the pathogens
Level 3	5-6		Possible candidate responses
		Refers to three areas of indicative content	
			There are antigens on bacteria which are detected by white blood
		OR	cells. Lymphocytes make antibodies and then memory
			lymphocytes are produced for a faster secondary response
		Gives an explanation of two areas of indicative content	
		orves are explanation of two areas of indicative content	Phagocytes detect antigens on the bacteria and engulf them. This
			is called phagocytosis. People might also develop a fever.
			Memory lymphocytes are produced and these stay in the blood to
			produce specific antibodies very quickly if there is a secondary
			infection by the same bacteria

(Total for question 9 = 13 marks)

Question number	Answer	Mark
10(a)(i)	D retina	(1)
	The only correct answer is D	AO2 1
	A is incorrect because the cornea does not contain light receptor cells	
	B is incorrect because the iris does not contain light receptor cells	
	C is incorrect because the lens does not contain light receptor cells	

Question number	Answer	Mark
10(a)(ii)	mitochondria / mitochondrion	(1)
	accept phonetic spellings	AO2 1

Question number	Answer	Mark
10(a)(iii)	nucleus / nuclei	(1)
	accept phonetic spellings	AO2 1

Question number	Answer	Additional guidance	Mark
10(a)(iv)	rods / rod cells	reject cones	(1)
			AO2 1

Question number	Answer	Additional guidance	Mark
10(a)(v)	A description including two of the following:  • cell B is a cone cell (1)  • involved in colour vision (1)	accept responds to bright light / high light intensities accept responds to different wavelengths frequencies of light (1)	(2) AO2 1

Question number	Answer	Additional guidance	Mark
10(b)(i)	Change the subject of the equation	award full marks for correct answer no	(3) AO2 1
	time = distance ÷ speed (1)	working	
	Conversion of mm to m		
	$47 \div 1000 = 0.047(m) (1)$		
	Substitution		
	0.047 ÷ 75 = 0.0006267 (seconds)	accept any correct rounding - 0.00063 / 0.000626(recurring) / 0.0006	
	OR	accept answers in standard form	
	Change the subject of the equation		
	time = distance ÷ speed (1)		
	Conversion of m to mm		
	75 x 1000 = 75000 (mm) (1)		
	Substitution		
	$47 \div 75000 = 0.0006267$ (seconds)		
		accept any correct rounding - 0.00063 / 0.000626(recurring) / 0.0006	
		accept answers in standard form	

Question number	Answer	Mark
10(b)(ii)	A cerebral hemispheres	(1)
	The only correct answer is A	AO1 1
	B is incorrect because the occipital lobe is not located in the medulla oblongata	
	C is incorrect because the occipital lobe is not located in the cerebellum	
	D is incorrect because the occipital lobe is not located in the hypothalamus	

Question number	Answer	Mark
10(b)(iii)	(eye)sight / vison / seeing / being able to see	(1)
		AO2 1

(Total for question 10 = 11 marks)