

Mark Scheme (Results)

Summer 2024

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

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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.

Question number	Answer	Mark
1(a)(i)	A cell wall	(1)
	The only correct answer is A	A01 1
	B is incorrect because structure W is not cytoplasm	
	C is incorrect because structure W is not chromosomal DNA	
	D is incorrect because structure W is not a plasmid	

Question number	Answer	Additional guidance	Mark
1(a)(ii)	flagellum / tail	accept flagella	(1) AO1 1
		accept phonetic spellings	

Question number	Answer	Addition al guidance	Mark
1(a)(iii)	movement	accept swimming	(1) AO1 1
		ignore reference s to sperm and eggs	

Question number	Answer		Mark
1(b)	body defence	function	(2) AO1 1
		• moves pathogens away from the lungs	AOII
	hydrochloric acid	• makes antibodies	
		destroys pathogens in the stomach	
	skin	• makes antigens	
		stops pathogens entering the body	
	do not award mark if tw hydrochloric acid box	o lines are drawn from	
	do not award mark if tw box	o lines are drawn from skin	

Question number	Answer	Additional guidance	Mark
1(c)	Any <b>two</b> from:		
	drinking alcohol (1)		(2) AO1 1
	• taking drugs (1)	accept smoking other substances / vaping	
	<ul> <li>malnutrition / overeating / poor diet (1)</li> </ul>	ignore obesity	
	• lack of exercise (1)		

	accept other named lifestyle factors	
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Total marks for question 1 = 7 marks

Question number	Answer	Mark
2(a)(i)	<ul> <li>salt (1)</li> <li>membranes (1)</li> </ul> must be in the correct order	(2) AO1 1

Question number	Answer	Additional guidance	Mark
2(a)(ii)	A description including:		(2)
	pour the contents (of the beaker) into the <b>funnel</b> (1)		(2) AO3 1a
	• (into) filter paper / to filter (it) (1)	accept filtration	
	to separate DNA (1)	accept separate liquid from solids	
		pour the contents of the beaker into the filter funnel is two marks	

Question number	Answer	Mark
2(a)(iii)	C white	(1)
	The only correct answer is C	AO1 1
	A is incorrect because the precipitate is not blue	
	B is incorrect because the precipitate is not	

orange	
D is incorrect because the precipitate is not red	

Question number	Answer	Mark
2(b)(i)	B 10.4	(1) AO2 1
	The only correct answer is B	AUZ I
	A is incorrect because the range is not 13.2	
	C is incorrect because the range is not 5.9	
	D is incorrect because the range is not 5.3	

Questio n number	Answer	Additional guidance	Mark
2(b)(ii)	6.4		(1) AO1 1

Total marks for question 2 = 7 marks

Question number	Answer	Mark
3(a)(i)	A P	(1) AO1 1
	The only correct answer is A	
	B is incorrect because Q is not the retina	
	C is incorrect because R is not the retina	
	D is incorrect because S is not the retina	

Questio n number	Answer	Additional guidance	Mark
3(a)(ii)	cornea		(1) AO1 1

Questio n number	Answer	Additional guidance	Mark
3(a)(iii)	An explanation linking <b>two</b> from:  R is the iris (1)  (muscles in R) can contract / relax (1)  to change the size of the <b>pupil</b>	accept become bigger / smaller reject ciliary muscles accept makes the <b>pupil</b> smaller / larger	(2) AO2 1

<ul> <li>so {less / more} light enters the eye (1)</li> </ul>	accept constrict / dilate ignore expand / decrease
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Questio n number	Answer	Additional guidance	Mark
3(b)	An explanation linking two from:  • the eye ball is too short / the {cornea / lens} is not curved enough (1)  • so light is not focused / converged (1)  • (on the) retina (1)	ignore lens is the wrong shape ignore eyeball is too large / small accept light is not refracted enough / light rays do not meet ignore reflecting	(2) AO2 1
	(31. 31.0) 1 231.12 (2)	accept the person is long-sighted (1)	

Questio n number	Answer	Additional guidance	Mark
3(c)(i)		accept any reasonable drawing of a convex lens	(1) AO2 1

Questio n number	Answer	Additional guidance	Mark
3c(ii)	cataracts / colour blindness	accept astigmatism / glaucoma	(1) AO1 1

Total marks for question 3 = 8 marks

Question number	Answer	Additional guidance	Mark
4(a)	A description including <b>three</b> from:		(3) AO2 1
	<ul> <li>select birds with highest egg production (1)</li> </ul>	ignore select the best chickens	
	• breed (these birds) (1)	CHICKCHS	
	<ul> <li>select / breed birds (with best traits) from these offspring (1)</li> </ul>	accept offspring inherit genes for producing more eggs	
	<ul> <li>repeat over many generations (1)</li> </ul>	accept repeat over a long time	

Question number	Answer	Mark
4(b)(i)	D diploid	(1)
	The only correct answer is D	AO1 1
	A is incorrect because chicken body cells are not dominant	
	B is incorrect because chicken body cells are not haploid	
	C is incorrect because chicken body cells are not recessive	

Question number	Answer	Additional guidance	Mark
4(b)(ii)	39 / thirty nine		(1) AO2 1

Question number	Answer			Mar k
4(c)	type of cell produced	type of cell division	number of daughter cells produced	(3) AO1
	body cell gamete	mitosis meiosis (1)	2 (1) 4 (1)	_
	Additional guidance Accept alternative sp Reject if meiosis has	ee pellings of meiosis.		

Question number	Answer	Additional guidance	Mark
4(d)	A description including <b>two</b> from:  • make (new) cells / divide (1)  • differentiate / become specialised / become other (named) types of cell (1)	accept mitosis ignore stem cells are unspecialised / undifferentiate d	(2) AO1 1
		ignore repair cells accept repair	

(provide new cells) {for growth / to replace (damaged) cells} (1)	damaged tissues / organs	
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**Total marks for question 4 = 10 marks** 

Questio n number	Answer	Additional guidance	Mark
5(a)(i)	stops heat loss / evaporation of water	ignore stops unwanted substances getting in	(1) AO2 2

Questio n number	Answer	Additional guidance	Mark
5(a)(ii)	A description including: use the thermometer (1)		(2) AO3 3a
	measure initial temperature and final temperature (1)	accept measure / take the temperature before and after	
	subtract initial temperature from final temperature (1)	accept an equation	

Questio n number	Answer	Additional guidance	Mark
5(b)(i)	50 x 4.2 x 30 (1) 6300 (J)	award full marks for correct answer with no working	(2) AO2 1

Questio n number	Answer	Additional guidance	Mark
5(b)(ii)	Any two from:		(2) AO3 3b
	<ul><li>use the same {mass / volume} of water (1)</li></ul>		
	• use the same mass of food (1)		
	distance of the burning food from the calorimeter (1)		
	use the same starting temperature of water (1)	accept repeat with	
	ensure the food is burnt completely (1)	each food (1)	

Questio n number	Answer	Additional guidance	Mark
5(c)	An explanation including:	ignore values taken from the table unless comparative	(2) AO3 2ab
		ignore stated	

<ul> <li>apple has {less / lower} energy / avocado has {more / higher} energy (1)</li> </ul>	differences	
<ul> <li>(because) apple contains less fat / avocado contains more fat (1)</li> </ul>		

**Total marks for question 5 = 9 marks** 

Questio n number	Answer	Additional guidance	Mark
6(a)(i)	antibiotics {do not kill / inhibit} viruses / (only) {kill / inhibit} bacteria	accept antibiotics are (only) used to treat bacterial infections / the common cold is not caused by bacteria  ignore fight off / get rid of bacteria	(1) AO2 1

Question number	Answer	Mark
6(a)(ii)	C clinical testing  The only correct answer is C	(1) AO1 1
	A is incorrect because preclinical testing is not the last stage in the production of antibiotics	
	B is incorrect because discovery is not the last stage in the production of antibiotics	
	D is incorrect because discovery is not the last stage in the production of antibiotics	

Questio n number	Answer	Additional guidance	Mark
6(b)	An explanation linking <b>four</b> from:	accept allele for gene	(4) AO3 1
	some bacteria have a mutation / resistant gene (1)	accept changes / variation in DNA	
	<ul> <li>non-resistant bacteria are killed / the resistant bacteria survive (the antibiotic) (1)</li> </ul>	ignore bacteria are immune / get rid of bacteria	
	<ul> <li>reduces competition / resistant bacteria have more {resources / food}</li> </ul>	accept survival of the fittest accept named	
	the resistant bacteria reproduce (1)	resources	
	pass on beneficial alleles		
	<ul> <li>(eventually) all bacteria are the antibiotic-resistant / bacteria with the mutation (1)</li> </ul>	accept resistance gene accept the	
		antibiotic will no longer be effective	

Questio n number	Answer	Additional guidance	Mark
6(c)	fossils / (structure of) {skeletons / bones / skull / pentadactyl limb}	accept cave paintings / (stone) carvings / discovery of Ardi / Lucy ignore clothes / DNA	(1) AO1 1

Questio n number	Answer	Additional guidance	Mark
6(d)(i)	An explanation including:  {tool A / newer tool} is more {refined /specialised} (1)		(3) AO2 1
	so {more recent humans / humans that made tool A} had greater skill (1)	accept named skill	
	because more recent humans were more intelligent (1)	accept had a larger brain	

Questio n number	Answer	Additional guidance	Mark
6(d)(ii)	compare with other finds (of a known age) / compare their shapes (1)	accept compare the way the tools were made	(2) A01 1
	depth in rock layer (1)		

	accept position in rock ignore place where they were found	
(radiometric) dating the surrounding rocks (1)	ignore carbon dating unless related to organic material found with tools	

Total marks for question 6 = 12 marks

Questio n number	Answer	Additional guidance	Mark
7(a)(i)	(cancer cells) divide uncontrollably / have mutations	accept {multiply / grow / reproduce} rapidly	(1) AO1 1

Questio n number	Answer	Additional guidance	Mark
7(a)(ii)	cells in tissue culture may respond differently to cells in the body	accept the drug may not work the same / might produce different results	(1) AO2 1

Questio n number	Answer	Additional guidance	Mark
7(b)(i)	autoclave	accept use gamma (rays) / UV	(1) AO1 1
		ignore heating / radiation	

Questio n number	Answer	Additional guidance	Mark
7(b)(ii)	<ul> <li>An explanation linking:</li> <li>to kill bacteria / pathogens (1)</li> </ul>	accept to prevent contamination / prevent growth of unwanted organisms ignore reduce the number of bacteria / pathogens	(2) A01 1
	<ul> <li>so {plant cells / plantlets} can grow disease-free / growth of {plant cells / plantlets} is unaffected (1)</li> <li>so {plant cells / plantlets} do not compete for resources (with pathogens) (1)</li> </ul>	accept so {plant cells / plantlets} are not damaged / killed (by pathogens)  accept a named resource e.g. nutrients	

Questio n number	Answer	Additional guidance	Mark
7(b)(iii)	<ul> <li>(tissue culture) allows a {large number of / more} new plants to be produced (1)</li> <li>only a small quantity of original plant tissue needed (1)</li> <li>plants do not become extinct (1)</li> </ul>	ignore references to yield / less space required / faster process  accept genetic material is not lost accept can control environmental factors / can grow plants at any time of year (1) accept plants are easier to monitor (1)	(1) AO1 1

Question number	Indicative content	Mark
7(c)*	A01	(6)
	cell wall  • made of cellulose	AO1 1
	• tough	
	<ul> <li>difficult for pathogens to break down / digest / gain entry</li> </ul>	
	<ul><li>waxy cuticle</li><li>protects epidermis and tissues below</li></ul>	
	difficult for pathogens to get through	
	thorns / prickles / spines	
	deter herbivores from eating them	
	<ul> <li>bark</li> <li>difficult for pathogens / pests to get through</li> </ul>	
	protects living tissue beneath	

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> </ul>	
		<ul> <li>Presents a description 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> </ul>	
		<ul> <li>Presents a description that has structure which is mostly clear, coherent and logical.</li> </ul>	
Level 3	5-6	Demonstrates accurate and relevant biological understanding throughout. Understanding of the scientific ideas is detailed and fully developed.	
		<ul> <li>Presents a description that has a well-developed structure which is clear, coherent and logical.</li> </ul>	

Leve	Mark	Additional Guidance	General additional guidance The level is determined by the number of physical barriers described. The mark within the level is determined by the level of detail in each description.
Level 1	1-2	<ul> <li>The answer refers to a physical barrier</li> <li>The response includes a detail about a physical barrier</li> </ul>	Some stems have thorns     Some stems have thorns, which stop animals eating the plant
Level 2	3-4	<ul> <li>The description refers to more than one physical barrier</li> <li>The response includes some detail about a physical barrier</li> </ul>	Plant cells have a tough cell wall. Some stems have thorns.

			<ul> <li>Plant cells have a tough cell wall that stops pathogens getting in. Some stems have thorns.</li> </ul>
Level 5	5-6	<ul> <li>The description refers to several physical barriers</li> <li>The response includes details of at least two physical barriers</li> </ul>	<ul> <li>Possible candidate responses</li> <li>Leaves have a waxy cuticle. Plant cells have a cell wall. Trees have bark on the outside.</li> <li>Leaves have a waxy cuticle on top. Plant cells have a cellulose cell wall. These stop pests piercing the plant. Trees have bark on the outside, which protects living tissue on the inside.</li> </ul>

## **Total for Question 7 = 12 marks**

Question number	Answer	Additional guidance	Mark
8(a)	<ul> <li>all points plotted correctly</li> <li>t one small square (1)</li> </ul>		(2) AO2 2
	<ul> <li>one curved line drawn through all the points ± two small squares (1)</li> </ul>	ecf accept a line of best fit for their plotted points	
		ignore any extrapolation	
		reject points joined dot-to- dot with straight lines / multiple lines	

Question number	Answer	Mark
8(b)(i)	B amino acids  The only correct answer is B	(1) AO1 1
	A is incorrect because sugars are not produced when a protein is broken down.  C is incorrect because fatty acids are not produced when a protein is broken down.  D is incorrect because starches are not produced when a protein is broken down.	

Question number	Answer	Additional guidance	Mark
8(b)(ii)	<ul> <li>A description including three from:</li> <li>(activity) increases (1)</li> <li>from pH 0.2 / to pH 2 (1)</li> </ul>		(3) AO3 1a
	<ul> <li>optimum (activity) at pH 2 (1)</li> <li>(pepsin activity) decreases {from pH 2 / to pH 3.5} (1)</li> </ul>	accept best / maximum / most active / optimal / peak for optimum accept pH 3.6	

Question number	Answer	Mark
8(b)(iii)	(pH) 8 / 8.0 / eight accept phonetic spellings of eight	(1) AO3 1a

Questio n number	Answer	Additional guidance	Mark
8(b)(iv)	An explanation including three from:  • pH 5 is too {acidic / low} (1)	accept proteins for substrate	(3) AO2 1
	<ul> <li>pris is too {acidic / low } (1)</li> <li>active site (of the enzyme) has changed (1)</li> </ul>		
	<ul> <li>(so the) substrate will not {fit into / bind with} (the active site) (1)</li> </ul>	accept enzyme and substrate are	
	<ul> <li>no enzyme-substrate complex is formed (1)</li> </ul>	no longer complementar y	
	<ul> <li>because the enzyme is denatured (1)</li> </ul>	ignore references to collisions between the substrate and the active site	
		the active site is denatured is two marks	

Question number	Answer	Additional guidance	Mark
8(b)(v)	(use a) water bath / incubator / idea of how temperature can be set in a room	accept a description of a water bath	(1) AO1 2

ignore in the same room / use a thermometer	
	same room / use a

Total marks for question 8 = 11 marks

Question number	Answer	Mark
9(a)(i) overlap	C a protist  The only correct answer is C	(1) AO1 1
	A is incorrect because malaria is not caused by a bacterium	
	B is incorrect because malaria is not caused by a fungus	
	D is incorrect because malaria is not caused by a virus	

Question number	Answer	Additional guidance	Mark
9(a)(ii)	by vectors / mosquitoes	accept blood transfusions / through blood / sharing contaminated needles	(1) AO1 1
		ignore insects / animals	

Question number	Answer	Additional guidance	Mark
9(b)	An explanation linking:  • (the number of measles cases reported) has decreased (1)		(2) AO2 1
		accept herd	

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Question number	Answer	Additional guidance	Mark
9(c)	<ul><li>Any <b>two</b> from:</li><li>white blood cells {kill / destroy} pathogens (1)</li></ul>	accept phagocytosis accept WBCs engulf pathogens	(2) AO1 1
	<ul> <li>(WBC) produce {antibodies / antitoxins} (1)</li> </ul>	reject antigens	
	<ul> <li>memory lymphocytes (are produced) (1)</li> </ul>	accept memory cells	
		accept rise in body temperature / inflammation / more mucus produced / <b>more</b> WBC are produced / WBC move to site of infection (1)	

Question number	Answer	Additional guidance	Mark
9(d)(i)	(beriberi) is not spread from person to person / is not caused by a {pathogen / named pathogen}	accept organisms for people	(1) AO2 1

ignore it is a deficiency disease / not infectious / not contagious / it is caused by a lifestyle factor	
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Question number	Indicative content	Mark
9(d)(ii)*	AO2	(6)
	<ul> <li>electrical impulses travel from the skinneurone X</li> <li>neurone Y</li> <li>neurone Z</li> <li>muscle in the arm</li> </ul>	AO2 1
	reflex arc detail  pricking the skin is a stimulus (the stimulus is) detected by receptors neurone Y / relay neurone is in the spinal cord /CNS there are synapses between neurones chemical transmitters are released at synapses the muscle is the effector the muscle contracts - this is the response electrical impulses do not travel to the brain the response is very fast	
	neurones  • X - sensory neurone  • Y - relay neurone  • Z - motor neurone	

Level	Mark	Descriptor	
	0	No rewardable material.	
Level 1	1-2	<ul> <li>The description attempts to link and apply knowledge ar understanding of scientific ideas, flawed or simplist connections made between elements in the context the question.</li> </ul>	
		<ul> <li>Lines of reasoning are unsupported or unclear.</li> </ul>	
Level 2	3-4	<ul> <li>The description is mostly supported through linkage and application of knowledge and understanding of scientific ideas, some logical connections made between elements in the context of the question.</li> </ul>	
		<ul> <li>Lines of reasoning mostly supported through the application of relevant evidence.</li> </ul>	
Level 3	5-6	<ul> <li>The description is supported throughout by linkage and application of knowledge and understanding of scientific ideas, logical connections made between elements in the context of the question.</li> </ul>	
		<ul> <li>Lines of reasoning are supported by sustained application of relevant evidence.</li> </ul>	

Leve	Mark	Additional Guidance	General additional guidance The level is determined by the quality of the description of the path taken by electrical impulses in a reflex arc The mark within the level is determined by additional detail of the path and reflex		
Level 1	1-2	<ul> <li>The answer refers to part of the path taken by electrical impulses</li> <li>The response includes an additional point of detail of the path</li> </ul>	Impulses go from the skin through X      Impulses from the skin through X to the spinal cord		
Level 2	3-4	<ul> <li>The description of the path includes X to Y to Z</li> <li>The response includes an additional point of detail of the path AND a named neurone</li> </ul>	<ul> <li>Possible candidate response</li> <li>Impulses go through X to Y then to Z</li> <li>Impulses go from the skin, through the sensory neurone to Y, which is in the spinal cord. Impulses then go to Z and on to the muscle.</li> </ul>		
Level 3	5-6	<ul> <li>The description of the path includes X to Y to Z and includes the names of at least two neurones OR one named neurone and reference to synapses</li> <li>The response includes an additional point of detail</li> </ul>	<ul> <li>Possible candidate responses</li> <li>Impulses go through the sensory neurone, to Y then to Z, which is a motor neurone.</li> <li>Impulses go from the skin, through X, the sensory neurone. Y is a relay neurone, which is in the spinal cord. Impulses then go to Z which is a motor neurone.</li> </ul>		

Total for question 9 = 13 marks

Question number	Answer	Mark
10(a)(i)	B the characteristic is dominant	(1)
	The only correct answer is B	AO3 1a
	A is not correct because the characteristic is not recessive	
	C is not correct because the characteristic is not a mutation	
	D is not correct because the characteristic is not environmental	

Question number	Answer	Additional guidance	Mark
10(a)(ii)	One from	award full marks for the correct answer	(2)
	• 40 (1)	with no workings	AO2 2
	• 480 (1)		
	• 160 ÷ 4 (x3) (1)		
	• 160 x 3 (÷ 4) (1)		
	• 160 x 0.75 (1)		
	• 160 x ¾ (1)		
	AND		
	Evaluation		
	120		
		accept 120:40 for two marks accept 40:120 for	
		one mark	

Question number	Answe	r			Additiona I guidance	Mark
10(a)(iii			white flo	owers		(3)
)			a	a	accept aA for Aa	A03
	purple	A	Aa	Aa	ignoro	1a+1 b
	flowers	a	aa	aa	ignore other	6
	, i				letters for genotypes	
	correct	genotype	for white f	lowers (1)		
	correct gamete		rom their	parental	ecf for incorrect gametes for white flowers	
	percent	age of wh	ite flowers	= 50% (1)	ecf from incorrect Punnett square	

Question number	Answer	Additional guidance	Mark
10(b)	Any two from:		(2)
	genetically identical offspring (1)	accept clones produced / same (advantageous) alleles ignore no variation / same genes	AO2 1
	<ul> <li>they will have the {same / desired} characteristics (1)</li> </ul>	accept same features accept named characteristics e.g. flower colour	
	(flowering plants)     produced faster (1)	accept shorter reproductive cycle / reproduce faster	
	only one parent plant needed (1)	accept no need to find a mate / no need for {pollination / (named) pollinators} ignore more plants	
		are produced / needs less resources / energy efficient / cheaper	

Question number	Answer	Mark
10(c)(i)	A a section of a DNA molecule that codes for a protein	(1)
	The only correct answer is A	AO1 1
	B is not correct because a chromosome does not code for DNA so it is not a gene	

C is not correct because the the entire DNA of an organism is not a gene

D is not correct because a section of a chromosome which coils into a double helix is not a gene

Question number	Answer	additional guidance	Mark
10(c)(ii)	An answer including two from:		(2)
	• A with T / C with G (1)	accept names of bases	AO1 1
	• weak (1)	accept <b>H</b> bonds	
	• <b>hydrogen</b> bonds (1)		

(Total for question 10 = 11 marks)

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