

# **Foundation**

**GCSE** 

**Biology B Twenty First Century Science** 

J257/01: Breadth in Biology (Foundation Tier)

General Certificate of Secondary Education

Mark Scheme for June 2022

OCR (Oxford Cambridge and RSA) is a leading UK awarding body, providing a wide range of qualifications to meet the needs of candidates of all ages and abilities. OCR qualifications include AS/A Levels, Diplomas, GCSEs, Cambridge Nationals, Cambridge Technicals, Functional Skills, Key Skills, Entry Level qualifications, NVQs and vocational qualifications in areas such as IT, business, languages, teaching/training, administration and secretarial skills.

It is also responsible for developing new specifications to meet national requirements and the needs of students and teachers. OCR is a not-for-profit organisation; any surplus made is invested back into the establishment to help towards the development of qualifications and support, which keep pace with the changing needs of today's society.

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by examiners. It does not indicate the details of the discussions which took place at an examiners' meeting before marking commenced.

All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

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#### MARKING INSTRUCTIONS

#### PREPARATION FOR MARKING

#### **RM ASSESSOR**

- 1. Make sure that you have accessed and completed the relevant training packages for on-screen marking: RM Assessor Online Training; OCR Essential Guide to Marking.
- 2. Make sure that you have read and understood the mark scheme and the question paper for this unit. These are available in RM Assessor.
- 3. Log-in to RM Assessor and mark the **required number** of practice responses ("scripts") and the **required number** of standardisation responses.

#### **MARKING**

- 1. Mark strictly to the mark scheme.
- 2. Marks awarded must relate directly to the marking criteria.
- 3. The schedule of dates is very important. It is essential that you meet the RM Assessor 50% and 100% (traditional 50% Batch 1 and 100% Batch 2) deadlines. If you experience problems, you must contact your Team Leader (Supervisor) without delay.
- 4. If you are in any doubt about applying the mark scheme, consult your Team Leader by telephone, email or via the RM Assessor messaging system.

## 5. Crossed Out Responses

Where a candidate has crossed out a response and provided a clear alternative then the crossed out response is not marked. Where no alternative response has been provided, examiners may give candidates the benefit of the doubt and mark the crossed out response where legible.

### **Rubric Error Responses – Optional Questions**

Where candidates have a choice of question across a whole paper or a whole section and have provided more answers than required, then all responses are marked and the highest mark allowable within the rubric is given. Enter a mark for each question answered into RM assessor, which will select the highest mark from those awarded. (The underlying assumption is that the candidate has penalised themselves by attempting more questions than necessary in the time allowed.)

## **Multiple Choice Question Responses**

When a multiple choice question has only a single, correct response and a candidate provides two responses (even if one of these responses is correct), then no mark should be awarded (as it is not possible to determine which was the first response selected by the candidate). When a question requires candidates to select more than one option/multiple options, then local marking arrangements need to ensure consistency of approach.

## **Contradictory Responses**

When a candidate provides contradictory responses, then no mark should be awarded, even if one of the answers is correct.

## **Short Answer Questions** (requiring only a list by way of a response, usually worth only **one mark per response**)

Where candidates are required to provide a set number of short answer responses then only the set number of responses should be marked. The response space should be marked from left to right on each line and then line by line until the required number of responses have been considered. The remaining responses should not then be marked. Examiners will have to apply judgement as to whether a 'second response' on a line is a development of the 'first response', rather than a separate, discrete response. (The underlying assumption is that the candidate is attempting to hedge their bets and therefore getting undue benefit rather than engaging with the question and giving the most relevant/correct responses.)

## **Short Answer Questions** (requiring a more developed response, worth **two or more marks**)

If the candidates are required to provide a description of, say, three items or factors and four items or factors are provided, then mark on a similar basis – that is downwards (as it is unlikely in this situation that a candidate will provide more than one response in each section of the response space.)

### **Longer Answer Questions** (requiring a developed response)

Where candidates have provided two (or more) responses to a medium or high tariff question which only required a single (developed) response and not crossed out the first response, then only the first response should be marked. Examiners will need to apply professional judgement as to whether the second (or a subsequent) response is a 'new start' or simply a poorly expressed continuation of the first response.

6. Always check the pages (and additional objects if present) at the end of the response in case any answers have been continued there. If the candidate has continued an answer there then add a tick to confirm that the work has been seen.

- 7. Award No Response (NR) if:
  - there is nothing written in the answer space.

#### Award Zero '0' if:

• anything is written in the answer space and is not worthy of credit (this includes text and symbols).

Team Leaders must confirm the correct use of the NR button with their markers before live marking commences and should check this when reviewing scripts.

- 8. The RM Assessor **comments box** is used by your Team Leader to explain the marking of the practice responses. Please refer to these comments when checking your practice responses. **Do not use the comments box for any other reason.** 
  - If you have any questions or comments for your Team Leader, use the phone, the RM Assessor messaging system, or email.
- 9. Assistant Examiners will send a brief report on the performance of candidates to their Team Leader (Supervisor) via email by the end of the marking period. The report should contain notes on particular strengths displayed as well as common errors or weaknesses. Constructive criticism of the question paper/mark scheme is also appreciated.

10. For answers marked by levels of response:

Read through the whole answer from start to finish, using the Level descriptors to help you decide whether it is a strong or weak answer. The indicative scientific content in the Guidance column indicates the expected parameters for candidates' answers, but be prepared to recognise and credit unexpected approaches where they show relevance. Using a 'best-fit' approach based on the skills and science content evidenced within the answer, first decide which set of level descriptors, Level 1, Level 2 or Level 3, best describes the overall quality of the answer.

Once the level is located, award the higher or lower mark:

The higher mark should be awarded where the level descriptor has been evidenced and all aspects of the communication statement (in italics) have been met.

**The lower mark** should be awarded where the level descriptor has been evidenced but aspects of the communication statement (in italics) are missing.

In summary:

The skills and science content determines the level.

The communication statement determines the mark within a level.

## 11. Annotations available in RM Assessor

Annotation	Meaning
<b>✓</b>	Correct response
×	Incorrect response
^	Omission mark
BOD	Benefit of doubt given
CON	Contradiction
RE	Rounding error
SF	Error in number of significant figures
ECF	Error carried forward
LI	Level 1
L2	Level 2
L3	Level 3
NBOD	Benefit of doubt not given
SEEN	Noted but no credit given
I	Ignore

12. Abbreviations, annotations and conventions used in the detailed Mark Scheme (to include abbreviations and subject-specific conventions).

Annotation	Meaning
1	alternative and acceptable answers for the same marking point
П	Separates marking points
DO NOT ALLOW	Answers which are not worthy of credit
IGNORE	Statements which are irrelevant
ALLOW	Answers that can be accepted
()	Words which are not essential to gain credit
_	Underlined words must be present in answer to score a mark
ECF	Error carried forward
AW	Alternative wording
ORA	Or reverse argument

## 13. Subject-specific Marking Instructions

## **INTRODUCTION**

Your first task as an Examiner is to become thoroughly familiar with the material on which the examination depends. This material includes:

- ① the specification, especially the assessment objectives
- the question paper
- the mark scheme.

You should ensure that you have copies of these materials.

You should ensure also that you are familiar with the administrative procedures related to the marking process. These are set out in the OCR booklet **Instructions for Examiners**. If you are examining for the first time, please read carefully **Appendix 5 Introduction to Script Marking: Notes for New Examiners**.

Please ask for help or guidance whenever you need it. Your first point of contact is your Team Leader.

The breakdown of Assessment Objectives for GCSE (9-1) in Biology B:

	Assessment Objective
AO1	Demonstrate knowledge and understanding of scientific ideas and scientific techniques and procedures.
AO1.1	Demonstrate knowledge and understanding of scientific ideas.
AO1.2	Demonstrate knowledge and understanding of scientific techniques and procedures.
AO2	Apply knowledge and understanding of scientific ideas and scientific enquiry, techniques and procedures.
AO2.1	Apply knowledge and understanding of scientific ideas.
AO2.2	Apply knowledge and understanding of scientific enquiry, techniques and procedures.
AO3	Analyse information and ideas to interpret and evaluate, make judgements and draw conclusions and develop and improve experimental procedures.
AO3.1	Analyse information and ideas to interpret and evaluate.
AO3.1a	Analyse information and ideas to interpret.
AO3.1b	Analyse information and ideas to evaluate.
AO3.2	Analyse information and ideas to make judgements and draw conclusions.
AO3.2a	Analyse information and ideas to make judgements.
AO3.2b	Analyse information and ideas to draw conclusions.
AO3.3	Analyse information and ideas to develop and improve experimental procedures.
AO3.3a	Analyse information and ideas to develop experimental procedures.
AO3.3b	Analyse information and ideas to improve experimental procedures.

Que	stior	า	Answer	Marks	AO element	Guidance
1		gei am	ouble helix ✓ enes ✓ mino acids ✓ nzymes ✓	4	1.1	If more than one answer circled on each answer line = 0 marks for that line

Question	Answer	Marks	AO element	Guidance
2 (a)	Are transported in the blood  Are transported as an electrical impulse  Hormones  Are secreted by a gland  Are made of nerve cells  Have effects that can last a long time	3	1.1	If more than three lines drawn each additional incorrect line negates 1 mark e.g. 4 lines drawn 3 correct = 2 marks 4 lines drawn 2 correct = 0 marks 5 lines drawn 3 correct = 1 mark 5 lines drawn 2 correct = 0 marks
(b)	(Type 1) diabetes ✓	1	1.2	ALLOW Type 2 diabetes

Q	uesti	ion	Answer			Marks	AO element	Guidance	
3	(a)		It is an end	osynthetic reaction othermic reaction thermic reaction nune response.	n.		1	1.1	More than 1 box ticked = 0 marks
	(b)		Aerobic respi	ration in animal ration in plant of spiration in anirespiration in mice	eells nal cells		1	1.1	More than 1 box ticked = 0 marks
	(c)		Does not use ATP Uses ATP	Active transport	Diffusion  ✓	Muscle contraction	2	2.1 x 1 1.1 x 1	1 mark for 'Does not use ATP' row being correct 1 mark for 'Uses ATP' row being correct. Only 1 tick correct in the 'Uses ATP' row = 0 marks
	(d)		Any one from high resolution high magnifica	า ✓			1	1.1	ALLOW correct value for magnification of electron microscope

uestion	Answer		AO element	Guidance
(a)	sensory √	1	1.1	
(b)	pancreas ✓	1	1.1	
(c)	vein ✓	1	1.1	
(d)	kidney ✓	1	1.1	
(e)	retina ✓	1	1.1	
(f)	brain stem ✓	1	1.1	
	(a) (b) (c) (d) (e)	(a) sensory ✓   (b) pancreas ✓   (c) vein ✓   (d) kidney ✓   (e) retina ✓	(a)       sensory ✓       1         (b)       pancreas ✓       1         (c)       vein ✓       1         (d)       kidney ✓       1         (e)       retina ✓       1	Ruestion       Answer       Marks element         (a)       sensory ✓       1       1.1         (b)       pancreas ✓       1       1.1         (c)       vein ✓       1       1.1         (d)       kidney ✓       1       1.1         (e)       retina ✓       1       1.1

C	uesti	ion	Answer	Marks	AO element	Guidance
5	(a)		The number of breeding pairs has decreased ✓	1	3.1a	
	(b)		There are no predators.  There is a more favourable climate.  There is less competition in the ecosystem.  There is not enough food.	1	3.1a	More than 1 box ticked = 0 marks
	(c)	(i)	FIRST CHECK THE ANSWER ON ANSWER LINE If answer = 69 (%) award 2 marks $64 + 5 \checkmark$ $= 69 (%) \checkmark$	2	2.2	
		(ii)	25600 ✓	1	2.2	More than 1 answer circled = 0 marks
	(d)		Benedict's  Biuret  Purple  Iodine  Red	2	1.2	1 mark for correct reagent, 1 mark for correct colour e.g. Biuret linked to black = 1 mark, iodine linked to purple = 1 mark  ALLOW 1 mark if three lines drawn to correctly link each reagent with the colour of positive test result  Benedict's  Black  Biuret  Purple  Iodine

G	uest	ion	Answer		AO element	Guidance
6	(a)		Homeostasis ✓	1	1.1	More than 1 answer circled = 0 marks
	(b)	(i)	36.0 − 37.0 (°C) ✓	1	1.2	<b>ALLOW</b> 36-37 / 37-36
		(ii)	FIRST CHECK THE ANSWER ON ANSWER LINE If answer = 36.5 (°C) award 2 marks  182.4 ÷ 5 = 36.48 ✓	2	1.2	
			36.48 converted to 1dp = 36.5 (°C) ✓			ALLOW 1 mark for any number correctly rounded to 1 decimal place where no working or value is incorrect
	(c)	(i)	Elephants have a large surface area.  Elephants have a small surface area: volume ratio.  Elephants have a small volume.  Elephants sweat a lot.	1	2.1	More than 1 box ticked = 0 marks
		(ii)	Increase blood flow (to the skin) ✓	1	2.1	ALLOW vasodilation ALLOW correct named behavioural response e.g. seek shade/flap ears/bathe/swim/cover in mud IGNORE sweating IGNORE panting

C	uesti	ion	Answer		AO element	Guidance
7	(a)		Any two from: use the focussing knob/wheel/dial ✓  change the objective/eyepiece lens ✓	2	3.3a	ALLOW adjust the focus/focus the image/focus the microscope ALLOW change the position of the stage ALLOW for 2 marks use the coarse then fine focus  ALLOW rotate the nosepiece
			clean the (objective) lens ✓  (idea of) increasing the light ✓			ALLOW adjust the mirror
	(b)	(i)	5 x 2 million = 10 million/10 000 000 ✓	1	2.2	
		(ii)	Any one from: there could be more or less bacteria in each colony / not every colony has 2 million bacteria / the colonies are different sizes / not every colony has the same amount of bacteria  we can't count all of the bacteria (in each colony)	1	2.2	
	(c)		cytoplasm ✓	1	1.1	ALLOW plasmid ALLOW circular chromosome/DNA

C	uesti	ion	Answer	Marks	AO element	Guidance
8	(a)	(i)	(idea of) an overall decrease in percentage of coral over time ✓	2	3.2b	IGNORE references to increase in 1975/2007
			use of correct quantitative data from the graph to support answer e.g. in 1950 (live coral was) 90±2% in 2007 (live coral was) 19±2% ✓			<b>ALLOW</b> in 1950 the percentage of coral was the highest and in 2002 it was the lowest
		(ii)	population will decrease ✓	2	2.1	ALLOW fish could become endangered/extinct
			Any one from:  (idea of) less shelter ✓  (idea of) less camouflage ✓  (idea of) fewer places to hide from predators ✓  (idea of) less food ✓  (idea of) fewer places to lay eggs ✓  (idea that) fish (species) cannot adapt fast enough to new environment ✓  (idea of) having to find another habitat ✓			ALLOW more predation
		(iii)	(continue to) decrease / remain at the same level / not recover / not increase ✓ due to global warming/climate change ✓	2	3.2a	ALLOW answers written anywhere in the response area for this question ALLOW the coral reef will die off/die out/all die/die IGNORE the coral will die
						ALLOW 2 marks for coral reef will increase because (idea of) action is being taken to reduce global warming/reverse climate change/reduce sea temperatures
						IGNORE ideas about adaptation

# J257/01 Mark Scheme June 2022

Question	Answer	Marks	AO element	Guidance	
(b)	Any one from: glucose ✓ oxygen ✓ food ✓ nutrients ✓ protein/amino acids ✓	1	2.1	IGNORE energy	
(c)	Any two from: (idea of) setting up marine conservation/protection areas  (idea of) managing fishing   (idea of) using resources sustainably   reduce global warming/limit climate change   captive breeding of endangered species   legal protection of endangered species   reduce pollution / remove pollutants   remove/control invasive species   control/limit hunting of (marine) animals   (idea of) setting up marine conservation/protection areas	2	2.1	ALLOW one named example of a sustainable fishing practice  ALLOW one named example of a relevant activity e.g. less burning of fossil fuels  ALLOW one named example of a pollutant that would be reduced e.g. plastic/oil/chemicals/sewage	

Questio	n		Answer		Marks	AO element	Guidance
9 (a)	Alleles  Chromosome  Genetic varia  Phenotype		A different version  The two copies of chromosomes  The characteristic and interaction with	a gene in a pair of that results from a gene h the environment	4	1.1	More than 1 line drawn from genetic term = 0 marks for that term
(b)	Person's genotype  AA  Aa  aa	The person will have sickle cell anaemia	The person may or may not have sickle cell anaemia	The person will <b>not</b> have sickle cell anaemia	3	2.1	More than 1 tick per line = 0 marks for that line
(c)	Any three from: there might be a family history of the condition \(  \) (the genetic test will tell them) if they are carriers / heterozygous/ Aa / have the allele (that causes sickle cell anaemia) \(  \) so they can find out/consider the risk of having a baby with sickle cell anaemia \(  \)				3	2.1	IGNORE to see if one of them is a carrier IGNORE gene  ALLOW for 2 marks if neither is a carrier/has the allele their baby will not have sickle cell anaemia / if both are carriers/have the allele there is a risk their baby will have sickle cell anaemia

# J257/01 Mark Scheme June 2022

Question	Answer	Marks	AO element	Guidance
	(depending on result they could use) donor egg and/or sperm ✓ (depending on result they could have) IVF/test embryos ✓ Amaya could have test on fetus during pregnancy e.g. amniocentesis ✓ so they can be prepared that their child might have sickle cell anaemia ✓ they can decide if they want to adopt / have a baby ✓			ALLOW PGD

Q	Question				Answer			Marks	AO element	Guidance
10	(a)		С	А	В	Е	D	3	1.2	A before B = 1 mark B before E = 1 mark E before D = 1 mark
	(b)		Any two from (idea of) doing environment temperature measure the repeat the example.  Any one from (variables to humidity of length of time wind speed light intensity)	ing the expets of a different for the roome experiment for the consideration of the considera	rent temperantentiem, environmententententententententententententente	ature / chan ent √	nge the	3	3.3a	specific temperatures do not need to be given IGNORE change the temperature of the water  ALLOW explanation of how rate would be calculated
	(c)		phloem ✓					1	1.1	

Q	uesti	on	Answer	Marks	AO element	Guidance	
11	(a)		white blood cell ✓	1	2.1		
	(b)		platelets ✓	1	1.1		
	(c)		Any one from:  hand washing ✓ vaccination ✓ isolation ✓ sanitation ✓ (idea of) food hygiene e.g. preparation/storage/cooking ✓ (idea of) personal hygiene e.g. cover wounds ✓ barriers e.g. masks/gloves/condoms ✓ control animal diseases ✓	1	2.1	ALLOW be hygienic	
	(d)	(i)	3.0 x 10 <sup>7</sup> ✓	1	1.2	More than 1 answer circled = 0 marks	
		(ii)	FIRST CHECK THE ANSWER ON ANSWER LINE  If answer = 4 (%) award 2 marks  1.2 ÷ 30 = 0.04 ✓ 0.04 × 100 = 4 (%) ✓	2	1.2	ALLOW ECF if 1.2/30 calculation was performed but incorrectly calculated  ALLOW 1 mark for 1.2/30 x 100 where no final answer is given or is incorrect	

# J257/01 Mark Scheme June 2022

Question	Answer	Marks	AO element	Guidance
(e)	(Reason to use the treatment) because (idea that) a high number/most/over 90%/91.5%/91% patients made a full recovery OR only 4 out of 47/8.5%/9% died ✓  (Reasons not to use the treatment) AND any two from: because it is only a small sample of patients ✓ there could be better treatments✓ it might not be suitable for certain types of patients/ages of patients ✓ study has not been repeated/only one study done ✓ side effects ✓ long term effects ✓ cost ✓	3	3.2b	IGNORE the treatment was effective  IGNORE it hasn't been properly/thoroughly tested IGNORE ethical considerations

Q	Question		Answer	Marks	AO element	Guidance
12	(a)		auxins ✓ more ✓ shade ✓	3	1.1	ALLOW auxins ALLOW less light DO NOT ALLOW dark
	(b)		gravitropism / (positively) gravitropic ✓	1	1.1	ALLOW geotropism IGNORE negatively phototropic DO NOT ALLOW negatively gravitropic

Qu	estio	n	Answer				Marks	AO element	Guidance
13	3 (a)				4	2.2	More than 1 tick in a row = 0 marks for that		
			Event in the cactus life cycle	Number of chromosomes					row
			Event in the cactus me cycle	11	22	44			
			At the end of interphase during meiosis			✓			
			At the end of interphase during mitosis			✓			
			In the cells produced by mitosis as the cactus grows		<b>√</b>				
			In the pollen produced by meiosis	✓					
			<b>√√√</b>						
	(b)		Active transport				1	1.1	More than 1 box ticked = 0 marks
			Cellular respiration						
			Photosynthesis						
			Transpiration						
			✓						
	(c)		xylem ✓				1	1.1	IGNORE phloem

Q	uesti	ion	Answer	Marks	AO element	Guidance
14	(a)		sex determination in humans is not determined by temperature/environment   AND any one from: sex determination in humans is determined genetically / inherited / by chromosomes/genes/alleles   (the chromosomes that determine sex) are X and Y / males are XY and females are XX	2	2.1	DO NOT ALLOW males are XX and females are XY  ALLOW in humans sex determination is at fertilisation, in turtles it is after fertilisation
	(b)	(i)	FIRST CHECK THE ANSWER ON ANSWER LINE If answer = 17841 or 17846 or 17847 or 17864 award 3 marks  18 000/117 = 153.846 ✓ 153.846 x 116 = 17 846.136 ✓ = 17 846 ✓	3	2.2	For candidates using different numbers of decimal places following the 18000/117 calculation  answer first answer 2 <sup>nd</sup> final answer marking point 17864 17864  153.85 17846.6 17847  153.846 17,846.136 17846  153.8 17840.8 17841  ALLOW 1 mark for any number correctly rounded to the nearest whole number where no working or value is incorrect

Question	Answer	Marks	AO element	Guidance
(ii)	(sea turtle) population will decrease / number of males have decreased ✓  AND any one from: not enough males to breed / fewer matings / more competition for male mates ✓ fewer females fertilised / laying eggs / less offspring ✓  OR  (sea turtle) population will increase ✓  AND any one from: more breeding females ✓ more females fertilised / laying eggs ✓	2	2.1	ALLOW there will be too many females ALLOW sea turtles could become endangered/go extinct ALLOW less reproduction
(iii)	incubate the eggs at lower temperatures / temperature of 31(°C) or below (so more males hatch) ✓  decrease global warming/reverse climate change ✓ protect beaches where more males seem to hatch ✓ relocate nests that are in warmer/too warm sand ✓ control sand temperature through shade or irrigation ✓	1	3.2a	ALLOW any named temperature below 31(°C)  ALLOW incubating between 27 and 31 (°C) (produces males and females)  ALLOW keep/breed the turtles at 31(°C) or below/lower temperature  ALLOW stop climate change

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