

GCE

Biology A

H020/02: Depth in biology

AS Level

Mark Scheme for June 2024

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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 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 posted on the RM Cambridge Assessment Support Portal http://www.rm.com/support/ca
- 3. Log-in to RM Assessor and mark the **required number** of practice responses ("scripts") and the **number of required** standardisation responses.

YOU MUST MARK 10 PRACTICE AND 10 STANDARDISATION RESPONSES BEFORE YOU CAN BE APPROVED TO MARK LIVE SCRIPTS.

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 40% 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 or the RM Assessor messaging system, or by email.

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 e-mail.
- 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.

Level of response questions on this paper are 2(a)(ii) and 4(c).

11. Annotations available in RM Assessor

Marking Annotations

Annotation	Use
BOD	Benefit of Doubt
CON	Contradiction
×	Cross
ECF	Error Carried Forward
GM	Given Mark
~~	Extendable horizontal wavy line (to indicate errors / incorrect science terminology)
I	Ignore
•	Large dot (various uses as defined in mark scheme)
	Highlight (various uses as defined in mark scheme)
NBOD	Benefit of the doubt not given
✓	Tick
^	Omission Mark
ВР	Blank Page
L1	Level 1 answer in Level of Response question
L2	Level 2 answer in Level of Response question
L3	Level 3 answer in Level of Response question

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
√	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:

- 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.

C	Question		Answer	Marks	Guidance				
1	(a)	(i)	non-random / systematic ✓	1					
		(ii)	FIRST CHECK THE ANSWER (if answer not on answer line look in the table) If answer = 0.71 award 3 marks	3	Species	n = Number of organisms	n/N	(n/N) ²	ECF for one
			0.71 ✓ ✓ ✓		Foxglove	3	0.13	0.02	
			If final answer incorrect or not to 2 sig fig, award 2		Meadow buttercup	7	0.30	0.09	
			marks:		Oxeye daisy	9	0.39	0.15	
			0.29 ✓✓		Yellow rattle	4	0.17	0.03	
			If $\sum (n/N)^2/0.29$ incorrect, award 1 mark for:			N = 23		$\sum (n/N)^2 = 0.29$	
			row values for, n/N and (n/N)², correctly entered ✓		incorrect round ALLOW 2 man $\sum (n/N)^2$ and 1 e.g. $[(n/N)^2]$ 0.0 1 - $\sum (n/N)^2 = 0$	rks for $-\sum (n/N)^2$ to 2	: so ∑(<i>n/i</i>	$ \frac{1 - \sum (n/N)^2}{0.71} = 0.71 $	
		(iii)	(biodiversity is) high ✓	1	ALLOW low as ALLOW field / and richness			h species evenr	ness

Q	uestion	Answer	Marks	Guidance
	(b)	1 (in both areas kick for) same number of times ✓	max 1	e.g. kick sampling for 5 minutes in each part of river
		2 same, kicking method used / depth of sweep net ✓		e.g. heel of foot kicking (in the direction of the net) / kick with same force / same person does the kicking
		3 sweep net is, downstream of student kicking / facing upstream ✓		
	(c)	1 reduction in (species / habitat) diversity ✓	max 1	ALLOW organisms / animals / plants for 'species' ALLOW named species reduction (in diversity)
		2 species may, decrease / disappear, as they relied on the, keynote species/trees, for their, food / habitat ✓		IGNORE species will become extinct ALLOW habitat will be damaged for organisms so they will disappear
		3 species may increase as they are not competing for (named) resources ✓		
		Total	7	

C	luest	ion	Answer	Marks	Guidance
2	(a)	(i)	Ant climbs to high point so	max 2	
			1 spores dispersed a, large / wide, distance ✓		IGNORE ref to tree / plants / birds, becoming infected or spreading the fungus
			2 many / other / uninfected, ants can be infected ✓		
			3 increased / rapid, fungal growth / spread of infection, as it is, warmer / humid / windy ✓		e.g. 'ant climbs to high point which has more air movement so spores travel further' = mp1 and 3
			Ants bite into branch/leaf		ALLOW ant stays still so, other / uninfected, ants could, become infected / come into contact with spores
			4 ants, secure / still, (ready) for fungal, growth / ease of feeding / spore dispersal ✓		4 IGNORE provides ant with more material to, digest/feed on
		(ii)*	Please refer to the marking instructions on page 4 of this mark scheme for guidance on how to mark this question.	6	Indicative points can include:
			Level 3 (5–6 marks) Detailed use of the data in Fig. 2.2 and Fig. 2.3 to support or not support the student's conclusion, describing the relationship between infection rates and both rainfall and temperature AND detailed analysis of infection data from Fig. 2.2 and temperature and rainfall		Data supports because: Infection rates are affected after rainfall Rainfall high in May to July, infections peak in Sept Highest numbers of infections are in Sept to Oct, 1-3 months after heavy rainfall
			data from Fig. 2.3. There is a well-developed line of reasoning which is clear and logically structured. The information presented is relevant and substantiated.		Temperature has no effect because Temperatures are highest May to September but infection rates vary / infection rates only start to increase / peak in Sept to Oct
			Level 2 (3–4 marks) Use of the data in Fig. 2.2 and Fig. 2.3 to support or not support the student's conclusion, describing the relationship between infection rates and both rainfall and temperature AND analysis of infection data from Fig. 2.2 and temperature or rainfall data from Fig. 2.3.		 Temp lowest Jan-Feb but infection rate varies Temp decreasing from Sept but infections, are high in Sept and Oct / vary Temp constant between July-Sep but infections vary/increase

Question	Answer	Marks	Guidance
	There is a line of reasoning presented with some structure. The information presented is relevant and supported by some evidence. Level 1 (1–2 marks) Reference to supporting or not supporting the student's conclusion. Reference to the data in Fig. 2.2 and Fig. 2.3, describing a relationship between infection rates and either rainfall or temperature AND simple analysis of the data in Fig. 2.2 or Fig. 2.3. There is an attempt at a logical structure with a line of reasoning. The information is in the most part relevant. O marks No response or no response worthy of credit.		Data does not support because: Infection rates not affected by rainfall Infections peak in Feb when rainfall is low Low rainfall (below 5) when infection rates high(er) Peak infections in Sep-Oct when rainfall decreased long before. Peak rainfall in (end of) May but June has lowest infection number Infection number increases before (and during) heavy rainfall Infection rates are affected by temperature Infection rates increase as temperature increases / ORA Infections peak after 3 or 4 months of sustained high temperatures Infections increase in July-Sep when temperature is high Infection rates low in Nov/Dec and temperature is low General Data from only one year (2017) Data from only one country (Taiwan) Examples of when the communication statement would be met include: Correct use of units for data provided Clear reference to the student's conclusion

(Questi	on	Ans	swer		Marks	Guidance
	(b)		Communicable Disease	Type of Pathogen		3	DO NOT ALLOW more than one answer for each type of pathogen
			Influenza Malaria	virus protoctist			ALLOW protist/protozoa for 'protoctist'
			Black sigatoka in bananas	fungus			·
			///				
					Total	11	

			Answer	Marks	Guidance
3	(a)		 Method 2 is facilitated diffusion because: 1 more particles added / as concentration increases, the rate (of uptake) increases then remains constant ✓ 	max 3	No mark awarded for Method 1
			2 (diffusion requires) transport / membrane, proteins ✓		2 IGNORE pores 2 ALLOW (named) channel / carrier, proteins
			3 (constant when) all the proteins are, saturated / full / working at max rate ✓		3 ALLOW 'used up' for 'full
			4 (so) adding more particles / greater concentration, will not increase the rate of, uptake / diffusion ✓		
	(b)		surface area / diffusion distance ✓	1	ALLOW thickness / width, of membrane/exchange surface IGNORE volume ratio
	(c)	(i)	stopwatch / timer ✓ thermometer / water bath ✓ measuring cylinder / pipette / syringe ✓ ruler ✓	max 2	IGNORE beaker
		(ii)		max 4	ALLOW Visking tubing for dialysis tubing throughout
			1 add glucose (solution) to the, dialysis tubing / model cell ✓		1 ALLOW tubing containing glucose (solution)
			2 knot / secure dialysis tubing, before / after, addition of glucose ✓		

	Answer	Marks	Guidance
	3 place (tubing) in a water bath and remove sample (around tubing) at, certain / specified / set, time interval(s) ✓		3 ALLOW glucose solution for 'sample' 3 IGNORE remove sample from inside the dialysis tubing 3 ALLOW dialysis tubing added to, test tube/beaker, of water
	 4 add Benedict's (solution) to sample to test for glucose ✓ 5 use colorimeter to obtain, absorption / transmission, values ✓ 6 use calibration curve to estimate the concentration of glucose ✓ 7 repeat at / use, different temperatures ✓ 		4 IGNORE adding Benedict's to the dialysis tubing 4 ALLOW look at colour with Benedicts to see how much glucose is present
(d)	1 as temperature increase the <u>kinetic</u> energy of the glucose molecules increases ✓	max 3	ALLOW ORA for MP 1- 3 IGNORE ref to phospholipid bilayer
	2 (increased temperature causes) glucose molecules, move / diffuse (from dialysis tubing) at a faster rate ✓		 2 ALLOW as temperature increases the rate of glucose diffusion increases 2 DO NOT ALLOW increased rate of glucose diffusion in context of increased permeability of membrane.
	 3 correct analysis of figures with units from table ✓ 4 greater rate between 10°C and 20°C ✓ 		3 e.g. from 20°C-40°C increase in temp, the glucose concentration increases by 1.1 moldm ⁻³
	Total	13	

C	Questi	ion	Answer	Marks	Guidance
4	(a)	(i)	3:1 / higher, collagen:elastin ratio, leads to, an aneurysm forming / a larger aneurysm ✓	1	IGNORE as the aneurysm size increases the collagen:elastin ratio increases
		(ii)	FIRST CHECK THE ANSWER ON ANSWER LINE. If answer = 5.297 award 3 marks	3	
			5.297 ✓ ✓ ✓		ALLOW 2 marks for correct answer to incorrect significant figures
			If answer incorrect allow:		
			(O-E) ² = 1156 (males and females) ✓		
			(O-E) 2 /E = 1.927 and 3.370 (males and females) ✓		ALLOW 1.927 and 3.370 to incorrect significant figures.
					Calculation: = $(-34)^2/600 + (34)^2/343$ = $1156/600 + 1156/343$ = $1.927 + 3.370 = 5.2968 = 5.297$
		(iii)	1 reject the null hypothesis / there is a difference between expected and observed (at the 5% level) ✓	max 2	ALLOW ECF from 4(a)(ii) throughout 1 ALLOW ECF from incorrect critical value used
			2 as (calculated) chi squared is higher than, the critical value of 3.841 ✓		2 ALLOW 3.841 (only) circled in table for 'the critical value of 3.841'. 2 ALLOW 5.297 >3.841
			3 using 1, df / degree of freedom (at the 5% level) ✓		3 ALLOW 1 df circled in the table
	(b)	(i)	1 stops backflow of blood due to low pressure ✓	2	
			2 allows (one way) flow back to the heart ✓		2 ALLOW stops backflow of blood so blood goes to the heart

Question		Answer		Guidance	
	(ii)	1 relaxation of smooth muscle (in arteriole) causes vasodilation (of the lumen) ✓	max 3	IGNORE ref to the, small size / number, of arterioles IGNORE ref to vasoconstriction	
		2 (this) regulates / controls, blood flow to capillaries (in the organ) ✓		2 IGNORE ref to diffusion	
		3 pressure of blood in artery is high <u>er</u> ✓		3 ALLOW arterioles have a lower pressure	
		4 as blood flows from the artery to the arteriole, the pressure falls ✓			
		5 (so) capillary (walls) will not rupture ✓			

(c)*

Please refer to the marking instructions on page 4 of this mark scheme for guidance on how to mark this question.

Level 3 (5-6 marks)

A full and detailed description of how heart action is initiated by the SAN **AND** coordinated including the AVN, Bundle of His **AND** Purkyne fibres

AND

a detailed explanation of why the atria and ventricles don't contract at the same time.

There is a well-developed line of reasoning which is clear and logically structured. The information presented is relevant and substantiated.

Level 2 (3-4 marks)

A detailed description of how heart action is initiated by the SAN **AND** coordinated to include the AVN and Bundle of His **OR** Purkyne fibres

AND

a simple explanation of why the atria and ventricles don't contract at the same time.

There is a line of reasoning presented with some structure. The information presented is relevant and supported by some evidence.

Level 1 (1-2 marks)

A brief description of how heart action is initiated by the SAN **AND** coordinated with the AVN

OR

reference to the delay after the SAN.

There is an attempt at a logical structure with a line of reasoning. The information is in the most part relevant.

0 marks

No response or no response worthy of credit.

6 Indicative points may include:

SAN

- (starts the) wave of excitation
- electrical activity causes atria to contract
- non conducting tissue
- ref to pace maker
- myogenic / not requiring input from brain

AVN

- atrio-ventricular node (AVN)
- picks up electrical activity from SAN

Contraction not at same time

- AVN causes a slight (0.1ms) delay
- (AVN) delay ensures atria have stopped contracting before the ventricles contract
- Ventricles only contract when (wave of excitation in) Purkyne fibres
- Makes sure blood has, left the atria/ entered the ventricles.
- Otherwise less blood will exit the heart

Bundle of His and Purkyne fibres

- AVN stimulates Bundle of His
- Bundle of His in septum
- Bundle of His conducts wave of excitation to apex (of heart)
- Bundle of His / Purkyne, is specialised muscle fibres
- Purkyne fibres in walls of ventricles
- Purkyne fibres ensures ventricles contract at same time

Examples of when the communication statement would be met include:

			Correct chronology of the electrical activity Focus on electrical activity associated with the cardiac cycle
	Total	17	

C	Question		Answer		Guidance
5	(a)	(i)	 1 use, dropper / pipette (to remove sample of pondwater) to place a, small amount / drop / droplet, onto slide ✓ 2 place coverslip, over the sample / on the slide ✓ 3 ensuring there are no air bubbles ✓ 	max 2	IGNORE ref to smearing the water sample / staining the sample 1 DO NOT ALLOW few drops (added to slide)
		(ii)	 1 select low power lens then higher power ✓ 2 use coarse focus to find, correct field of view / object ✓ 3 use fine focus for clear(er) image ✓ 4 ref to x4 / x10 / x40 (lens power / magnification) ✓ 	max 2	1 ALLOW magnification for 'power' 2 ALLOW adjustment for 'focus' 2 IGNORE ref to fine focus for finding correct field of view 3 IGNORE ref to coarse focus for getting a clear image
	(b)		 1 magnification stated (in both figures) ✓ 2 all / only, (named) components in photomicrograph are drawn ✓ 3 no shading ✓ 4 correct proportions of, cells / nuclei ✓ 	max 2	IGNORE ref to what is not drawn on Fig 5.2 2 ALLOW only 2 cells are drawn 2 ALLOW nucleus is drawn (as seen in photomicrograph)

C	Question		Answer		Guidance
			5 specifies type of cells / states cheek cells / specimen is named ✓		5 IGNORE has a title unqualified
	(c)	(i)	Compared to light microscope	max 2	IGNORE ref to image being black and white IGNORE ref to resolution
			 1 nuclear pore / nuclear envelope / vesicle / golgi apparatus, are visible ✓ 2 high(er) magnification / mag is x100 000 ✓ Compared to scanning EM 		1 IGNORE any other named organelle
			3 image is 2D ✓		3 ALLOW image is not 3D as with a SEM
		(ii)	1 proteins are synthesised / translation occurs, on the ribosomes (of RER) ✓	max 4	ALLOW RER for rough endoplasmic reticulum throughout
			2 proteins then pass into, lumen / cisternae (of RER) ✓		
			3 proteins can, fold / have carbohydrate added ✓4 (proteins) are packaged into, transport vesicles ✓		4 ALLOW transport vesicles carry protein to the Golgi (from RER)
			5 (transport) vesicles move to Golgi by microtubules ✓		5 ALLOW cytoskeleton for 'microtubules' 5 DO NOT ALLOW vesicles moving to SER from RER (then Golgi)
			6 vesicles fuse with <u>cis</u> face of Golgi ✓		(anon delign)

Questio	Answer	Marks	Guidance
	7 proteins are modified in Golgi and packaged into, (secretory) vesicles ✓		7 ALLOW proteins are processed for 'proteins are modified' 7 DO NOT ALLOW proteins packaged as vesicles for 'packaged into vesicles'
(1	ii) requires, energy / ATP ✓	1	DO NOT ALLOW in context of diffusion
(d)	1 provides mechanical strength to the cell ✓	max 3	ALLOW microtubules / microfilaments for 'cytoskeleton' context
	2 holds organelles in place ✓		
	3 aids transport of, (named) molecules / (named) organelles (within the cell) ✓		
	4 cell movement ✓		
	5 maintains cell, shape / structure / integrity / stability ✓		
	6 (role in) cell division / cytokinesis / spindle fibres ✓		
	Total	16	

C	Question		Answer		Marks	Guidance	
6	(a)	(i)	amine ✓ carboxyl ✓	nine ✓ rboxyl ✓ cle drawn completely around bond between C=O		2	IGNORE structural / molecular, formulae ALLOW amino for 'amine' ALLOW carboxylic acid (group) for 'carboxyl'
		(ii)	circle drawn completely around bond AND the N-H ✓			1	ALLOW circle to encompass C=O AND the N-H IGNORE circle line on part of the bonds immediately before and after C=O AND the N-H
		(iii)	<u>hydrolysis</u> ✓			1	
	(b))				2	ALLOW a cross in place of a tick
			Statement	True	False		
			Breaking one ester bond in a triglyceride produces glycerol and three fatty acids.		√		
			Ribose is a hexose monosaccharide.		✓		
			In an alpha glucose molecule, the hydroxyl (OH) group is positioned below carbon 1.	✓			
			All 3 rows correct ✓✓ Any 2 rows correct ✓				
					Total	6	

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