## Mark Schemes for the Units

## January 2010

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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.

OCR will not enter into any discussion or correspondence in connection with this mark scheme.
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## GCSE Twenty First Century Biology A (J633)

## MARK SCHEMES FOR THE UNITS

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## Guidance for Examiners

Additional Guidance within any mark scheme takes precedence over the following guidance.

1. Mark strictly to the mark scheme.
2. Make no deductions for wrong work after an acceptable answer unless the mark scheme says otherwise.
3. Accept any clear, unambiguous response which is correct, eg mis-spellings if phonetically correct (but check additional guidance).
4. Abbreviations, annotations and conventions used in the detailed mark scheme:
/ = alternative and acceptable answers for the same marking point
(1) $\quad=$ separates marking points
not/reject = answers which are not worthy of credit
ignore $\quad=$ statements which are irrelevant - applies to neutral answers
allowlaccept $=$ answers that can be accepted
(words) = words which are not essential to gain credit
words $\quad=$ underlined words must be present in answer to score a mark
ecf $\quad=$ error carried forward
AW/owtte = alternative wording
ORA = or reverse argument
Eg mark scheme shows 'work done in lifting/(change in) gravitational potential energy' (1) work done $=0$ marks work done lifting = 1 mark change in potential energy $=0$ marks gravitational potential energy $=1$ mark
5. Annotations:

The following annotations are available on SCORIS.
$\checkmark \quad=$ correct response
x = incorrect response
bod = benefit of the doubt
nbod $=$ benefit of the doubt not given
ECF = error carried forward
$\wedge \quad=$ information omitted
I = ignore
$\mathrm{R}=$ reject
6. If a candidate alters his/her response, examiners should accept the alteration.
7. Crossed out answers should be considered only if no other response has been made. When marking crossed out responses, accept correct answers which are clear and unambiguous.

## Eg

For a one mark question, where ticks in boxes 3 and 4 are required for the mark:

Put ticks $(\checkmark)$ in the two correct boxes.


This would be worth 0 marks.

Put ticks $(\checkmark)$ in the two correct boxes.


This would be worth one mark.

Put ticks ( $\checkmark$ ) in the two correct boxes.


This would be worth one mark.
8. The list principle:

If a list of responses greater than the number requested is given, work through the list from the beginning. Award one mark for each correct response, ignore any neutral response, and deduct one mark for any incorrect response, eg one which has an error of science. If the number of incorrect responses is equal to or greater than the number of correct responses, no marks are awarded. A neutral response is correct but irrelevant to the question.
9. Marking method for tick boxes:

Always check the additional guidance.
If there is a set of boxes, some of which should be ticked and others left empty, then judge the entire set of boxes.
If there is at least one tick, ignore crosses. If there are no ticks, accept clear, unambiguous indications, eg shading or crosses.
Credit should be given for each box correctly ticked. If more boxes are ticked than there are correct answers, then deduct one mark for each additional tick. Candidates cannot score less than zero marks.

Eg If a question requires candidates to identify a city in England, then in the boxes

| Edinburgh |  |
| :--- | :--- |
| Manchester |  |
| Paris |  |
| Southampton |  |

the second and fourth boxes should have ticks (or other clear indication of choice) and the first and third should be blank (or have indication of choice crossed out).

| Edinburgh |  |  | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Manchester | $\checkmark$ | $\times$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  | $\checkmark$ |  |
| Paris |  |  |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |
| Southampton | $\checkmark$ | $\times$ |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |
| Score: | $\mathbf{2}$ | $\mathbf{2}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | NR |

## A221/01 Modules B1, B2, B3 Foundation Tier

| Question |  |  | Expected Answers | Marks | Additional Guidance |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | a |  | $\begin{aligned} & \text { an immune (1) } \\ & \text { engulf (1) } \\ & \text { antibodies (1) } \end{aligned}$ | [3] | accept any clear indication of a correct response more than one word circled in any sentence scores 0 marks |
|  | b |  | His body reacts more quickly ... $\square$ $\square$ $\square$ | [1] | if more than 1 box is ticked, deduct 1 mark for each incorrect answer <br> candidates cannot score less than 0 marks accept any clear indication of a correct response |
|  |  |  | Total | [4] |  |


| Question |  |  | Expected Answers | Marks | Additional Guidance |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | a |  | gene in same place as Steve's (1) | [1] | accept third band from bottom only more than one box shaded scores 0 marks |
|  | b |  | alleles (1) recessive (1) | [2] | accept crossing out of other words |
|  | c |  | Mary has inherited a combination $\square$ (1) | [1] | if more than 1 box is ticked, deduct 1 mark for each incorrect answer <br> candidates cannot score less than zero marks accept any clear indication of a correct response |
|  |  |  | Total | [4] |  |



| Question |  |  | Expected Answers | Marks | Additional Guidance |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | a |  | $\square$ <br> ... have the pregnancy terminated. $\square$ (1) $\square$ <br> ... have any more children. $\square$ (1) $\square$ | [2] | if more than 2 boxes are ticked deduct 1 mark for each incorrect answer <br> candidates cannot score less than zero marks accept any clear indication of a correct response |
|  | b |  | any two from: <br> name of risk involved other than miscarriage; not worth having the test if you will have the baby anyway / help them decide whether to terminate the pregnancy; <br> it is ethically wrong / it is unnatural (against God); how reliable the test is; affect insurance company / society using the result; family history; how severe the disorder is; stress to parent; | [2] |  |
|  |  |  | Total | [4] |  |


| Question |  |  | Expected Answers | Marks | Additional Guidance |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 5 | a |  |  | [2] | if more than 2 boxes are ticked deduct 1 mark for each incorrect answer <br> candidates cannot score less than zero marks accept any clear indication of a correct response |
|  | b |  | more people will be cured (1) than embryos destroyed/used / than the number of people who object (1) | [2] | allow 'lots of people will be cured' / owtte |
|  |  |  | Total | [4] |  |


| $\mathbf{6}$ | $\mathbf{a}$ |  | safe (1) | $[1]$ |  |
| :--- | :---: | :---: | :--- | :---: | :---: |
|  | $\mathbf{b}$ | $\mathbf{i}$ | Stella (1) | $[1]$ |  |
|  |  | $\mathbf{i i}$ | States a benefit (eg prevents disease spreading / <br> provides immunity) <br> AND <br> states a risk (eg not safe / side effect) (1) | $[1]$ |  |
|  |  |  | Total | $[3]$ |  |



| Question |  | Expected Answers |  | Marks |  |
| :---: | :---: | :--- | :--- | :--- | :--- |
| $\mathbf{8}$ | a |  | content added to inside of blood vessel (1) <br> artery wall of same thickness (1) |  |  |



| 10 | a | extinction (of a species/dinosaurs) (1) | [1] | accept 'died out' for extinction <br> 'died' alone is insufficient |  |
| :--- | :--- | :--- | :--- | :---: | :--- |
|  | $\mathbf{b}$ |  | any two from: <br> humans were not alive then / people did not see it <br> happen; <br> lack of data; <br> different ways of interpreting the data; | [2] | accept in any order <br> accept 'not much evidence' <br> accept 'there is no proof' <br> accept no-one is certain <br> reject there is no evidence |
|  | Total | [3] |  |  |  |



## A221/02 Modules B1, B2, B3 Higher Tier

| Question |  |  | Marks |  |
| :---: | :---: | :--- | :--- | :---: | :--- |
| $\mathbf{1}$ | $\mathbf{a}$ | X (for Mary) <br> Y (for Steve) | $[1]$ | both needed for mark <br> accept upper or lower case |
|  | b | X (1) | $[1]$ | accept any clear indication of correct response |
|  | c | environmental factors (1) | $[1]$ | accept an example eg physical injury / lifestyle |
|  |  | Total | $[3]$ |  |




\begin{tabular}{|c|c|c|c|c|c|}
\hline \multicolumn{3}{|r|}{Question} \& Expected Answers \& Marks \& Additional Guidance \\
\hline 4 \& a \& \& \begin{tabular}{l}
A new nucleus...an empty egg cell \\
A nucleus...an adult body cell \\
A nucleus is removed from egg cell
\end{tabular} \& [2] \& \begin{tabular}{l}
three correct \(=2\) marks \\
two correct = 1 mark \\
one correct \(=0\) marks \\
if more than three boxes ticked then deduct 1 mark for each incorrect response \\
candidates cannot score less than zero marks \\
accept any clear indication of correct response
\end{tabular} \\
\hline \& b \& \& \begin{tabular}{l}
Embryos can be used ...

<br>
... to treat some diseases. $\square$ (1)
\end{tabular} \& [2] \& if more than two boxes ticked then deduct 1 mark for each incorrect response candidates cannot score less than zero marks accept any clear indication of correct response <br>

\hline \& \& \& Total \& [4] \& <br>
\hline
\end{tabular}



| Question |  | Expected Answers | Marks |  |  |
| :---: | :---: | :---: | :--- | :---: | :--- |
| $\mathbf{6}$ | $\mathbf{a}$ |  | safe (1) | [1] | accept any clear indication of correct response. |
|  | $\mathbf{b}$ | $\mathbf{i}$ | Stella (1) | $[1]$ | accept any clear indication of correct response. |
| [1] | ignore benefits outweigh the risks / it is risky <br> ignore 'vaccination affects you' as not specific enough |  |  |  |  |
|  |  | states a benefit (eg prevents disease <br> spreading / provides immunity) <br> AND <br> states a risk (eg not safe / side effect) | Total | [3] |  |



Total
[2] three correct ticks = 2 marks
two correct ticks = 1 marks
one correct tick = 0 marks
deduct 1 mark for each additional incorrect tick candidates cannot score less than zero marks
accept other unambiguous indication of correct answer eg shading

| Question |  | Expected Answers | Marks | Additional Guidance |  |
| :---: | :---: | :---: | :--- | :---: | :---: |
| $\mathbf{8}$ | $\mathbf{a}$ | fewer finches / owtte (1) <br> higher proportion of bigger beaks / <br> average beak size increases / <br> correct reference to fewer finches with beaks at <br> the extremes (1) | [2] <br> idea of proportion needed for second mark <br> idea of bigger beaks alone or fewer smaller beaks does not score |  |  |
|  | $\mathbf{b}$ |  | natural selection / survival of the fittest (1) | [1] | ignore Darwin's theory or evolution |
|  | c |  | few to start with (1) <br> less chance of them surviving/breeding (1) | [2] | accept example of predator / disease <br> accept could wipe out the small number of individuals <br> ignore competition for food arguments |
|  |  |  | Total | [5] |  |


| $\mathbf{9}$ | $\mathbf{a}$ | A <br> B | [1] | both required for mark <br> accept either order |
| :---: | :---: | :---: | :--- | :---: | :--- |
|  | $\mathbf{b}$ | any two from: <br> loss of face/credibility / loss of reputation; <br> pride / stubbornness / does not want work to be <br> a waste of time; <br> loss of funding; | [2] | ignore religious beliefs / she thinks she is right |
|  |  | Total | [3] |  |




## A222/01 Modules B4, B5 and B6 Foundation Tier





| 4 | $\mathbf{a}$ | four (1) <br> double (1) | [2] | accept any other clear indication of correct response such as <br> linking words to spaces |
| :---: | :---: | :--- | :---: | :--- |
|  | $\mathbf{b}$ | Helen <br> Frank | [1] | both required for mark <br> accept either way round <br> accept any other clear indication of correct response such as <br> linking names to spaces |
|  | c | copied / replicated / double (1) <br> separate / split / divide / go into different cells (1) | [2] |  |
|  |  |  | Total |  |



| 6 | a | 30 (1) | [1] | more than 1 response $=0$ marks accept any other clear response eg underlined |
| :---: | :---: | :---: | :---: | :---: |
|  | b | $\begin{aligned} & \text { meiosis (1) } \\ & \text { all (1) } \end{aligned}$ | [2] | more than one response for each sentence $=0$ marks for the sentence accept any other clear response eg lines linking words to spaces |
|  | c |  | [1] | more than 1 response $=0$ marks accept any other clear response eg cross, shaded or ring around specialised or box, underlined |
|  | d | idea that genes code for milk production / owtte (1) <br> idea of switched on or off (1) | [2] |  |
|  |  | Total | [6] |  |

\begin{tabular}{|c|c|c|c|c|c|}
\hline \multicolumn{3}{|r|}{Question} \& Expected Answers \& Marks \& Additional Guidance \\
\hline 7 \& a \& \& consciousness intelligence language development \& [2] \& \begin{tabular}{l}
three correct \(=2\) marks \\
two correct = 1 mark \\
more than three responses, deduct 1 mark for each additional response candidate cannot score less than zero marks
\end{tabular} \\
\hline \& b \& \& \begin{tabular}{ll} 
\& \(\square\) \\
\& \(\square\) \\
storing information \& \(\checkmark\) \\
retrieving information \& \(\checkmark\)
\end{tabular} \& [1] \& two correct responses = 1 mark deduct 1 mark for each additional incorrect response candidates cannot score less than zero accept any other clear response eg cross, shaded or ring around 'storing info' 'retrieving info' or box, underlined \\
\hline \& c \& i \& \begin{tabular}{l}

<br>
... both short and long-term memory $\square$
\end{tabular} \& [1] \& more than 1 response $=0$ marks accept any other clear response eg cross, shaded or ring around '.. both short and long ...' or box, underlined <br>

\hline \& \& ii \& ... are more likely to transmit ... $\square$
$\square$ \& [1] \& more than 1 response = 0 marks accept any other clear response eg cross, shaded or ring around '... are more likely to transmit ...' or box, underlined <br>
\hline \& \& \& Total \& [5] \& <br>
\hline
\end{tabular}


$\left.\begin{array}{|l|l|l|l|c|l|}\hline \text { 9 } & \text { a } & \text { B (1) } & \text { [1] } & \begin{array}{l}\text { more than one response = 0 marks } \\ \text { accept a ring around the letter B or the word axon next to B }\end{array} \\ \hline & \mathbf{b} & \begin{array}{l}\text { (label) C / around the axon / fibre (1) } \\ \text { insulates the neuron / axon / fibre (1) } \\ \text { increases / speeds up the } \\ \text { transmission/impulse/message (1) }\end{array} & \text { [3] } & \text { accept 'fatty sheath' next to C } \\ \text { must refer to speed or rate of transmission } \\ \text { ignore efficiency of impulse transmission } \\ \text { ignore quick impulses (unqualified) }\end{array}\right]$

## A222/02 Modules B4, B5 and B6 Higher Tier



| $\mathbf{2}$ | $\mathbf{a}$ |  | $35\left({ }^{\circ} \mathrm{C}\right)(1)$ | $[1]$ |  |
| :---: | :---: | :---: | :--- | :---: | :--- |
|  | $\mathbf{b}$ | the heat balance is not maintained because the <br> body heat cannot be replaced as fast as it is <br> being lost / owtte (1) | $[1]$ | response must indicate that body is trying, unsuccessfully, to <br> replace heat lost <br> ignore keeping heat inside body - must be an active process |  |
|  | $\mathbf{c}$ | $\mathbf{i}$ | receptors <br> hypothalamus | [1] <br> both required for mark <br> accept any other clear response eg lines linking words to <br> spaces |  |
|  | iiis decreased <br> is decreased | $[1]$ | both required for mark <br> accept underlined, correct responses |  |  |


| Question |  |  | Expected Answers | Marks | Additional Guidance |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | a | i | Jimmy (1) | [1] | accept any other clear response e.g. lines linking words to spaces |
|  |  | ii | Rachel (1) | [1] | accept any other clear response e.g. lines linking words to spaces |
|  | b |  |  | [2] | one mark for each correct pair of crossed lines |
|  | C |  | 30 to $48\left({ }^{\circ} \mathrm{C}\right)(1)$ | [1] | accept either way round |
|  | d |  | pH of the solution (1) | [1] | accept any other clear response eg cross or underlined |
|  |  |  | Total | [6] |  |



| $\mathbf{5}$ | $\mathbf{a}$ |  |  |  |  |  | [1] | all correct in the sequence = 1 mark |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | $\boxed{4}$ | $\boxed{2}$ | $\boxed{4}$ | $\boxed{1}$ | (1) |  |  |
|  | $\mathbf{b}$ | $\boxed{3}$ | $\boxed{2}$ | $\boxed{4}$ | $\boxed{2}$ | (1) | [1] | all correct in the sequence $=1$ mark |
|  |  |  |  |  |  |  |  |  |
|  | $\mathbf{c}$ | $1(1)$ |  | $[1]$ | more than one response $=0$ marks |  |  |  |
|  |  |  |  |  |  |  |  |  |


| Question |  |  | Expected Answers | Marks | Additional Guidance |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6 | a | i | The shoot stops growing. <br> The shoot grows to the right. <br> The shoot grows to the left. | [1] | all correct responses = 1 mark accept any other clear response eg lines linking letters to boxes |
|  |  | ii | Laani (1) Chris (1) | [2] | more than two responses - deduct one mark for each additional response <br> accept correct responses in either order <br> accept any other clear response eg lines linking names to <br> spaces, rings around correct names |
|  | b |  | idea that plants grow towards light (1) (light needed) for photosynthesis / to make food (1) plants are competing better / gain an advantage (1) | [3] | ignore bend/move towards light <br> ignore unqualified reference to increased survival |
|  |  |  | Total | [6] |  |


| Question |  |  | Expected Answers | Marks | Additional Guidance |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 7 | a |  | B (1) | [1] | more than one response $=0$ marks accept a ring around the letter B or the word axon next to B |
|  | b |  | (label) C / around the axon / fibre (1) insulates the neuron / axon / fibre (1) increases / speeds up the transmission/impulse/message (1) | [3] | accept 'fatty sheath' next to $C$ <br> must refer to speed or rate of transmission ignore efficiency of impulse transmission ignore quick impulses (unqualified) |
|  |  |  | Total | [4] |  |


| 8 | a | i | $\begin{aligned} & \hline \text { retrieval (1) } \\ & \text { storage (1) } \end{aligned}$ | [2] | accept responses in either order accept correct, alternative words eg stored reject 'processing' |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ii | cerebral cortex (1) | [1] | allow cerebrum, cortex, cerebral hemispheres, frontal lobe reject cerebellum, front part |
|  | b |  | correct reference to pattern (1) correct reference to repetition/repeating (1) correct reference to associated stimulus (1) | [3] | accept a named example eg mnemonic, use of songs accept a named example eg lots of times / over and over accept a named example eg linking to colours, sounds, taste |
|  | c |  | Edward and Chris (1) | [1] | both required for mark accept in either order accept any other clear response eg lines linking names to spaces, rings around correct names |
|  |  |  | Total | [7] |  |


| Question |  | Expected Answers | Marks | Additional Guidance |
| :--- | :--- | :--- | :--- | :---: | :--- |
| $\mathbf{9}$ | $\mathbf{a}$ | slows down (1) | [1] | more than one response = 0 marks <br> accept any other clear response eg underlined, ticked, or <br> crosses (if no other type of response shown) |
|  | $\mathbf{b}$ | (only) neuron A/one neuron can release the <br> synapse chemical/serotonin (1) <br> (only) neuron B/the other neuron/cell body has <br> the receptor molecules to recognise the synapse <br> chemical serotonin (1) | accept first neuron = A, second neuron = B <br> only award 1 or 2 marks if response includes reference to <br> chemical, serotonin or neurotransmitter |  |
|  | c | increases (1) $\quad$ Total | [1] | allow anything that indicates bigger |
|  |  |  |  |  |

## Grade Thresholds

General Certificate of Secondary Education
GCSE Twenty First Century Biology A (J633)
January 2010 Examination Series
Unit Threshold Marks

| Unit |  | Maximum <br> Mark | A* $^{*}$ | A | B | C | D | E | F | G | U |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A221/01 | Raw | 42 |  |  |  | 25 | 20 | 16 | 12 | 8 | 0 |
|  | UMS | 34 |  |  |  | 30 | 25 | 20 | 15 | 10 | 0 |
| A221/02 | Raw | 42 | 32 | 29 | 24 | 19 | 12 | 8 |  |  | 0 |
|  | UMS | 50 | 45 | 40 | 35 | 30 | 25 | 20 |  |  | 0 |
| A222/01 | Raw | 42 |  |  |  | 21 | 17 | 13 | 9 | 5 | 0 |
|  | UMS | 34 |  |  |  | 30 | 25 | 20 | 15 | 10 | 0 |
| A222/02 | Raw | 42 | 32 | 26 | 19 | 13 | 10 | 8 |  |  | 0 |
|  | UMS | 50 | 45 | 40 | 35 | 30 | 25 | 20 |  |  | 0 |

## Specification Aggregation Results

Overall threshold marks in UMS (ie after conversion of raw marks to uniform marks)

|  | $\begin{gathered} \text { Maximum } \\ \text { Mark } \end{gathered}$ | A* | A | B | C | D | E | F | G | U |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| J633 | 300 | 270 | 240 | 210 | 180 | 150 | 120 | 90 | 60 | 0 |

The cumulative percentage of candidates awarded each grade was as follows:

|  | A* | A | B | C | D | E | F | G | $\mathbf{U}$ | Total No. <br> of Cands |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| J633 | 13.2 | 41.2 | 83.3 | 99.1 | 99.1 | 99.1 | 100.0 | 100.0 | 100.0 | 114 |

275 candidates were entered for aggregation this series.
For a description of how UMS marks are calculated see:
http://www.ocr.org.uk/learners/ums/index.html
Statistics are correct at the time of publication.

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