A LEVEL BIOLOGY A & B



2019 Summer Highlights

Your answer:



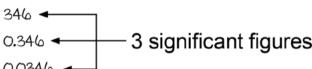
Longer answers don't always lead to more marks. If correct responses are

CON

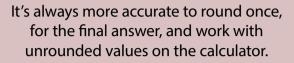
0.34564524



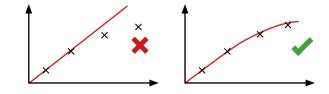
If changing the answer for an MCQ, completely cross out the wrong letter and write the correct one anew.



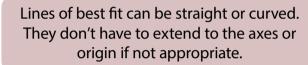
contradicted, marks can be lost.



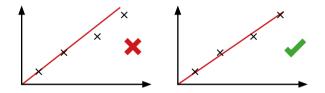


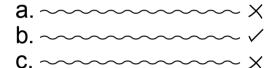


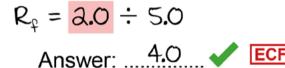
Make sure you give answers to the number of significant figures asked for after performing calculations.



Cross out answers if you need to change them. Trying to correct an answer by writing over it can make it unclear.







Lines of best fit should cover all points and have a fair distribution of points above and below the line.

For MCQs, if you don't know the answer try eliminating options by annotating. Don't leave MCQ answers blank!

Show clear working for calculations. Error carried forward may mean a response still gains marks if a mistake is made.







Answer: 65000 Answer: 6.5×10^4

Remember that precision is the closeness of agreement between different results. It is not the same as accuracy.

Accuracy is a measure of how close a result is to the true value.

You need to be able to convert results between decimal form and standard form (e.g. a \times 10°).

Animal A has

animal B

smaller legs than

State three variables necessary for a valid comparison.

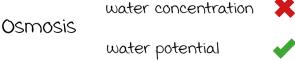
Animal A has shorter legs than animal B

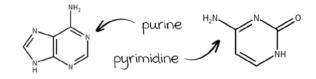
Validity is about controlling the variables around the collection of data so that is not affected by inconsistencies.

You should always aim to give a balanced discussion in ethical based questions.

When describing differences, the language used must be precise and use comparative terms such as 'more' or 'less'.







Remember that DNA consists of a sequence of bases, not a sequence of amino acids.

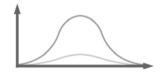
Osmosis is the net movement of water across a partially permeable membrane down a water potential gradient.

Purines (A, G) have a double carbon ring structure while the pyrimidines (T, C, U) have a single.

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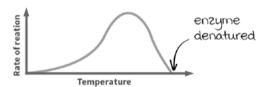


Compare the changes in the graph

When asked to compare, describe or evaluate make sure you quote relevant data, including units.



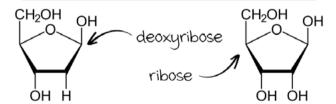
Remember, the xylem is on the inside of each bundle and the phloem on the outside.



Enzymes do not denature at low temperature. They have lower kinetic energy therefore there is lower activity.

biodiversity levels \neq areas of a habitat biodiversity levels \neq classification

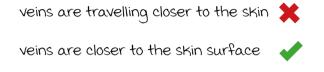
When referring to biodiversity at different levels this is habitat, species and genetic biodiversity.



Distinguishing between DNA and RNA structure seemed to be a challenge.

probability # chance

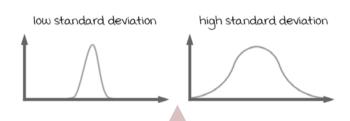
The word 'chance' in statistics refers to the random deviations from 'probability' that can occur.



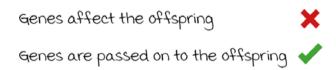
Avoid terms like veins are 'travelling', 'pushing' or 'moving' closer to the skin.



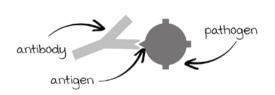
Avoid combining two conventions such as a slash and '-1'. Correct abbreviations of units must be used.



Standard deviation cannot tell us if a difference is significant.



The use of precise language is important and marks may be lost if the correct terms are not used.



Antigen is a protein on the outside of a foreign organism. Antibody is the protein produced by the body's immune system.



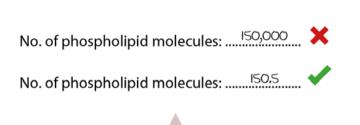
The term 'species' doesn't refer to an individual organism. Using it in the wrong context could lose you marks.

% uncertainy =
$$\frac{a \times absolute uncertainty}{quantity measured} \times 100$$

The percentage uncertainty equation is one of the mathematical formulae students are expected to recall.

% change =
$$\frac{\text{new value } - \text{original value}}{\text{original value}} \times 100$$

Percentage change is a formulae that students need to recall. A negative value indicates a % decrease.



Students need to consider whether their numerical answer is reasonable and realistic.

The full candidate exemplar materials for the 2019 Biology A Level papers can be found on Interchange.

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