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NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

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Level 2 Biology, 2012

91156 Demonstrate understanding of life processes at the cellular level

2.00 pm Thursday 22 November 2012

Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of life processes at the cellular level.	Demonstrate in-depth understanding of life processes at the cellular level.	Demonstrate comprehensive understanding of life processes at the cellular level.

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt ALL the questions in this booklet.

If you need more space for any answer, use the page(s) provided at the back of this booklet and clearly number the question.

Check that this booklet has pages 2–8 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

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The movement of materials between cells and within cells is crucial to the functioning of all processes at a cellular level.

In your answer you should compare and contrast the processes, in terms of their similarities and differences, and provide an example of each process as it occurs in an animal OR plant.

DNA replication is the starting point for cell division. In common with other cellular processes, the replication of DNA is reliant on the presence of a number of enzymes and the rate at which they can carry out their function.

Discuss how any THREE of these factors can change the rate of enzyme activity, and why this would be important in the case of DNA replication.

Extra paper if required.
Write the question number(s) if applicable.

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