

90464



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NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA



For Supervisor's use only

Level 2 Biology, 2008

90464 Describe cell structure and function

Credits: Three

2.00 pm Monday 17 November 2008

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 answer 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.

For Assessor's use only		Achievement Criteria	
Achievement		Achievement with Merit	Achievement with Excellence
Describe cell structure and function.	<input type="checkbox"/>	Explain cell structure and function.	<input type="checkbox"/>
Overall Level of Performance		<input type="checkbox"/>	

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Enzymes are found in both animals and plants, and have important roles in their metabolism.

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- Discuss** how any THREE of these factors can change the rate of activity within cells.

[illegible]

QUESTION THREE

Euglena and *Paramecium* are single-celled organisms that live in areas of fresh water such as lakes and ponds. Both of them have a number of organelles that enable them to function and survive in their environments.

Euglena

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Paramecium

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Greenwood, Shepherd & Allan, *Year 12 Biology* (Hamilton: Biozone. 2006), p 270.

- (a) The cell membrane that encloses each organism is semi-permeable.

Explain the need for a **semi-permeable membrane**.

- (b) **Explain** why unicellular organisms such as *Euglena* and *Paramecium* are restricted to being microscopic in size.

- [illegible]

(a) Describe the purpose of photosynthesis.

- [illegible]

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Relph, Pedder, DeLacey, *Life Science* (Auckland: Heinemann, 1989), p 215.

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**Extra paper for continuation of answers if required.
Clearly number the question.**

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