

90461



904610



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA



For Supervisor's use only

Level 2 Biology, 2008

90461 Describe concepts and processes relating to ecology

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 biological concepts and processes relating to ecology. | <input type="checkbox"/> | Explain biological concepts and processes relating to ecology. | <input type="checkbox"/> | Discuss biological concepts and processes relating to ecology. | <input type="checkbox"/> |
| Overall Level of Performance | | | | <input type="checkbox"/> | |

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- Discuss** why the tree lupin is an important pioneer species in a newly forming community.

[illegible]

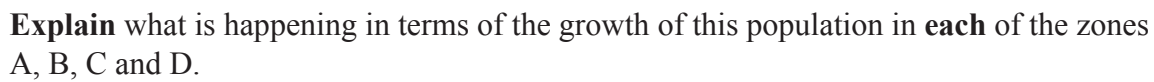
- (c) Zonation is a common ecological pattern. Some New Zealand examples of zonation include rocky shores and mountainous areas.

For a named habitat in New Zealand, explain what is meant by zonation, and why it occurs.

Name of habitat: _____

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The diagram below shows the number of individuals in a population plotted against time.

[illegible]

QUESTION THREE

A single tree can provide the home to many thousands of insects, from many different species.

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this resource cannot be
reproduced here.*

- (a) Draw and label a pyramid of numbers to show FOUR trophic levels of a food chain that exists in a tree such as the one shown.

http://www.aetoma.com/nz2/lg_x20021214-08h10m51s-M.jpg

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- [illegible]

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- This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on its right side, suggesting it's resting on a surface.

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

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Question
number

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