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NZQA

NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

For Supervisor's use only

Level 2 Biology, 2008

90463 Describe diversity in the structure and function of plants

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 2–10 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 diversity in the structure and function of plants in relation to a biological process. ☐	Explain diversity in the structure and function of plants in relation to a biological process. ☐	Discuss diversity in the structure and function of plants in relation to a biological process. ☐
Overall Level of Performance ☐		

You are advised to spend 35 minutes answering the questions in this booklet.

All plants have adaptations to enable them to survive in their environment. Different plant groups have evolved to show a great diversity of structures and functions to help them carry out a number of biological processes. These include:

- nutrition
- transportation of materials
- transpiration
- reproduction.

In this assessment, you must describe diversity in the operation of ONE of these biological processes, in THREE different plant groups.

From the list above, choose ONE of the processes and write it in the box below:

Use this box to help you plan your answer. This will not be marked.

Describe, in general terms, the purpose of the biological process you have named above:

Name the THREE plant groups you will use in your answer. Choose plant groups that clearly show **diversity** in the structure and function for the way they carry out the biological process in their environment.

Plant group one:

Plant group two:

Plant group three:

QUESTION ONE

Assessor's use only

(This question should be answered for each of the plant groups you have chosen, but only for the biological process you have named in the box on page 2.)

Describe the structures involved, how they work, and explain how they allow each group to survive in their environment. *Diagrams may be used in your response, but they must be clearly labelled.*

Plant group one: _____

Plant group two: _____

Assessor's use only

Plant group three: _____

Assessor's use only

QUESTION TWO

Assessor's use only

Discuss the reasons for **diversity** in the structure and function of your chosen plant groups, in relation to your chosen biological process, and the environments they live in. (You should compare and contrast between at least TWO of your chosen plant groups.)

Assessor's use only

This space may be used to continue an answer for Question One or Question Two. Please clearly label which question you are continuing.

Assessor's use only

QUESTION NUMBER: _____

Space for continuation of Question One or Question Two.

Assessor's use only

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

Assessor's use only

Question number