2

90463

NZQA
NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

For Supervisor's use only

Level 2 Biology, 2007

90463 Describe diversity in the structure and function of plants

Credits: Three
2.00 pm Tuesday 27 November 2007

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 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		

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

In order to survive, and be successful in their habitats, 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 box 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

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For each of the plant groups you have chosen, describe the structures involved in the biological process you have named. In each case, **describe** how these structures function, and **explain** how they allow each group to survive in their **habitat**. *Diagrams may be used in your response, but they must be clearly labelled.*

Plant group one:

Plant group two:

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Plant group three:

Assessor's use only

QUESTION TWO

Assessor's use only

Discuss why **diversity** exists across your chosen plant groups, in order for them to survive and be successful in their **habitats**.

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

Assessor's use only

Question number	