2

90463

904630

NZQA

NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

For Supervisor's use only

Level 2 Biology, 2009

90463 Describe diversity in the structure and function of plants

Credits: Three
2.00 pm Wednesday 18 November 2009

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 BOTH parts of this booklet.

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

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		

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

Assessor's use only

All plants have adaptations to enable them to survive. 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 processes include:

- nutrition
- transport of materials
- transpiration
- reproduction.

In this examination, 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.

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 relation to their survival.

Plant group one:

Plant group two:

Plant group three:

You are advised to read BOTH parts before you begin your answers.

PART ONE

Assessor's use only

For the biological process you have named on page 2, and for EACH of the three plant groups chosen:

- **Describe** at least THREE structures and their related functions.
- **Explain** how the features of these structures enable them to carry out their functions.

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

PART TWO

Assessor's use only

Compare and contrast at least TWO of your chosen plant groups to **discuss** why there is **diversity** in the structure and function in relation to your chosen biological process.

Assessor's use only

Extra paper for continuation of answers for Part One or Part Two if required. Clearly number the part.

Assessor's use only

Part number

90463