

90462



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NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

For Supervisor's use only

Level 2 Biology, 2009

90462 Describe diversity in the structure and function of animals

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 animals in relation to a biological process.	<input type="checkbox"/>	Explain diversity in the structure and function of animals in relation to a biological process.	<input type="checkbox"/>	Discuss diversity in the structure and function of animals in relation to a biological process.
Overall Level of Performance				<input type="checkbox"/>

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

All animals have adaptations to enable them to survive. Different animal 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:

- internal transport
- gas exchange
- nutrition
- excretion
- support and movement
- sensitivity and co-ordination
- reproduction.

In this examination, you must describe diversity in the operation of ONE of these biological processes, in THREE different animal 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 animal groups you will use in your answer. Choose animal groups that clearly show **diversity** in the structure and function for the way they carry out the biological process in relation to their survival.

Animal group one:

Animal group two:

Animal group three:

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

PART ONE

For the biological process you have named on page 2, and for EACH of the three animal 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.

Animal group one:

Animal group two:

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Animal group three:

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PART TWO

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

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

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Part
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