

90177



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

For Supervisor's use only

Level 1 Human Biology, 2010

90177 Describe maintenance of normal body functioning

Credits: Two

9.30 am Friday 26 November 2010

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 2–7 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.

<i>For Assessor's use only</i>		Achievement Criteria			
Achievement		Achievement with Merit		Achievement with Excellence	
Describe maintenance of normal body functioning.	<input type="checkbox"/>	Explain maintenance of normal body functioning.	<input type="checkbox"/>	Discuss maintenance of normal body functioning.	<input type="checkbox"/>
Overall Level of Performance				<input type="checkbox"/>	

You are advised to spend 30 minutes answering the questions in this booklet.

QUESTION ONE

Insulin is produced by cells in the pancreas, an endocrine gland.

- (a) **Describe** the endocrine system.

- (b) **Explain** the function of insulin.

- (c) **Discuss** how feedback mechanisms control the production of insulin by the pancreas.

In your answer consider the changing levels of blood glucose.

You may use labelled diagrams to support your answer.

QUESTION TWOAssessor's
use only

(a) **Describe** TWO short term effects that smoking tobacco has **on the body**.

(1) _____

(2) _____

(b) **Describe** TWO long term effects (over many years) that smoking tobacco has **on the body**.

(1) _____

(2) _____

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