



For Supervisor's use only

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90177



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA



National Certificate of Educational Achievement
TAUMATA MĀTAURANGA Ā-MOTU KUA TAEA

Level 1 Human Biology, 2006

90177 Describe maintenance of normal body functioning

Credits: Two

9.30 am Wednesday 22 November 2006

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"/> |

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

QUESTION ONE

The **pituitary gland** is often called the '**master gland**' of the endocrine system.

(a) Name TWO hormones produced by the pituitary gland.

(1) _____ (2) _____

(b) Explain how the pituitary gland works as a 'master gland'. Support your answer with an example.

(c) (i) Name the gland that produces adrenalin.

(ii) Describe where the named gland in (c) (i) is found in the body.

(d) (i) Describe TWO effects the release of the hormone adrenalin has on the body.

(1) _____

(2) _____

(ii) Explain **how** ONE of these effects prepares the body for an emergency.

Note that Question Three
follows on the next page.

