

90166



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NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

For Supervisor's use only

Level 1 Biology, 2008

90166 Describe the functioning of human digestive and skeletomuscular systems

Credits: Four

9.30 am Monday 17 November 2008

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 2–12 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 biological ideas relating to the functioning of human digestive and skeletomuscular systems.	<input type="checkbox"/>	Describe biological ideas relating to the functioning of human digestive and skeletomuscular systems.	<input type="checkbox"/>	Describe biological ideas relating to the functioning of human digestive and skeletomuscular systems.	<input type="checkbox"/>
		Explain biological ideas relating to the functioning of the human digestive or the skeletomuscular system.	<input type="checkbox"/>	Discuss biological ideas relating to the functioning of the human digestive or the skeletomuscular system.	<input type="checkbox"/>
Overall Level of Performance (all criteria within a column are met)					<input type="checkbox"/>

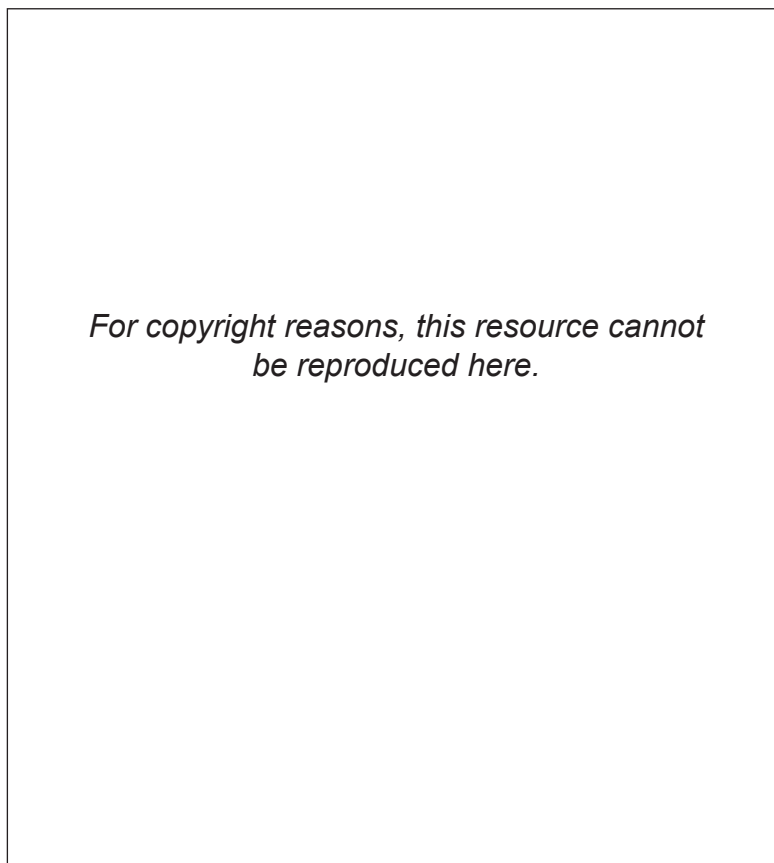
You are advised to spend 55 minutes answering the questions in this booklet.

SECTION A: HUMAN DIGESTIVE SYSTEM

QUESTION ONE

- (a) **Describe** the purpose of digestion.

The diagram below shows parts of the digestive system. Use it to help answer the questions that follow.



Adapted from Torrance, *Standard Grade Biology* (Sevenoaks, Kent, UK: Hodder & Stoughton, 1989), p 98.

- (b) **Describe** a function of the stomach in digestion.

- Discuss** how digestion occurs in the duodenum.

- **explain** the roles of the gall bladder and pancreas
- **explain** the changes that occur in pH and the surface area.

[illegible]

QUESTION TWO

- (a) Sometimes things go wrong with the digestive system, for example when a person has **constipation** or **diarrhoea**.

Explain the difference between constipation and diarrhoea.

- (b) **Discuss** why BOTH physical and chemical digestion are necessary for digestion to be efficient.

In your discussion you should:

- **describe** physical and chemical digestion
- **explain** why BOTH physical and chemical digestion are necessary for digestion to be efficient.

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QUESTION THREE

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This page has been deliberately left blank.

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Discuss how the bones, muscles, ligaments and tendons work together to allow the joint to bend.

- a **description** of the function of bones, muscles, ligaments and tendons in the movement of a joint
- an **explanation** of how the bones, muscles, ligaments and tendons work together to allow the joint to bend.

[illegible]

**Question Four is
on the following page.**

(a) **Describe** a function of the skeleton.

- In your discussion you should LINK the following:

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- This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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

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Question
number

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