



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, 2004

### 90177 Describe maintenance of normal body functioning

Credits: Two

9.30 am Tuesday 23 November 2004

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 provided at the back of this booklet and clearly number the question.

Check that this booklet has pages 2–6 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.**

Achievement Criteria				<i>For Assessor's use only</i>			
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"/>		
<b>Overall Level of Performance</b>						<input type="checkbox"/>	

You are advised to spend 20 minutes answering the questions in this booklet.

### QUESTION ONE

A glucose drink is taken after hard exercise.

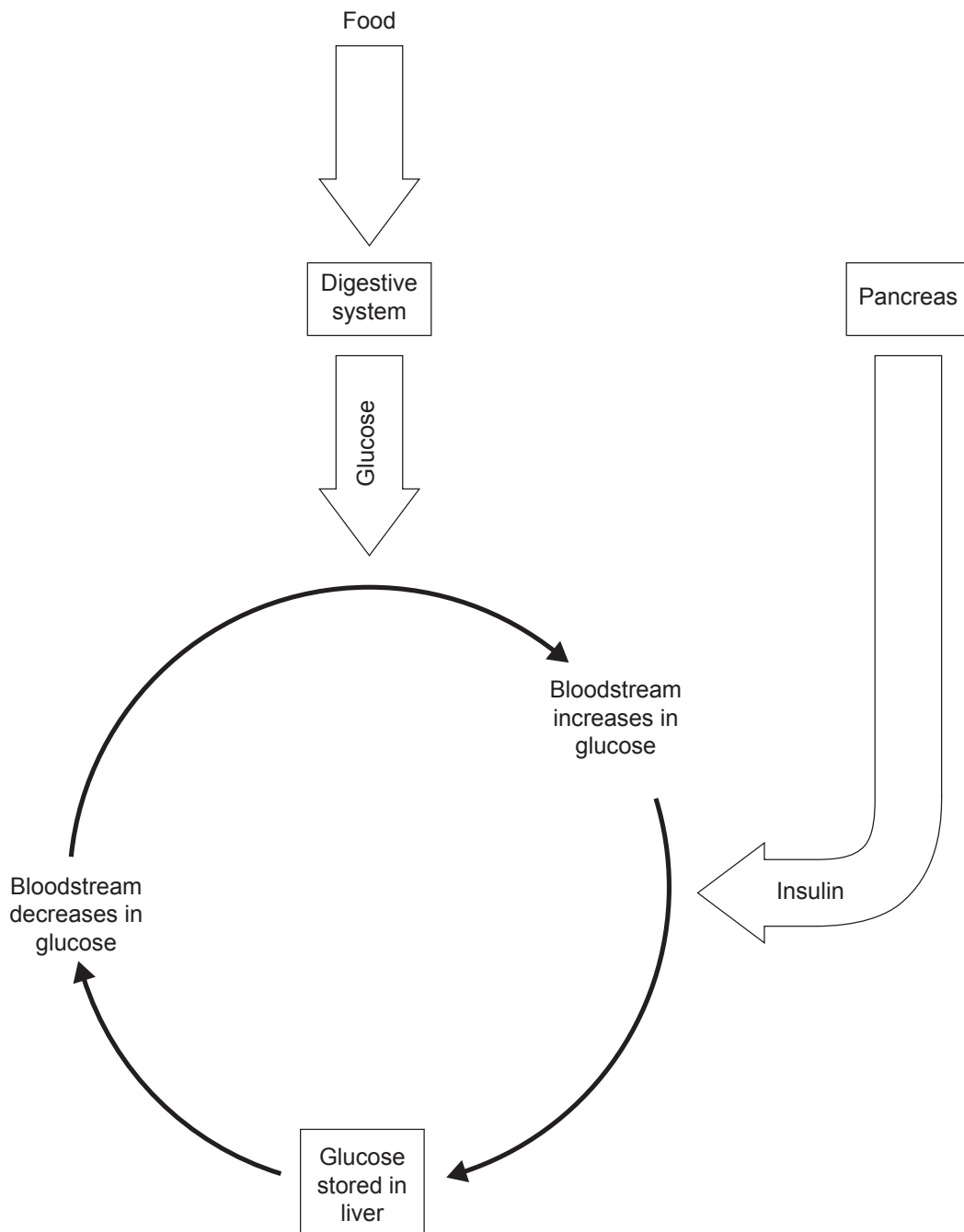
- (a) Describe the effect the drink has on glucose levels in the blood.

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A hormone called **insulin** helps control the blood sugar level of the body.

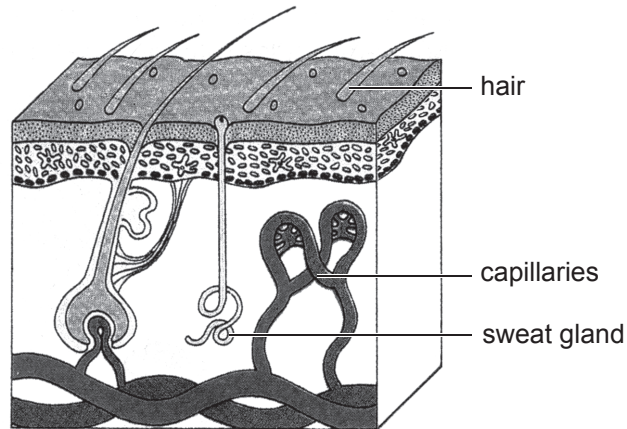
The diagram below shows events that take place to control glucose levels in the blood.





## QUESTION TWO

The diagram below shows a cross section of a person's skin while they are exercising.



(a) Describe TWO **changes** that take place in the skin during exercise.

(1) \_\_\_\_\_

(2) \_\_\_\_\_

(b) Discuss how a cold body tries to return to a normal body temperature. You need to refer to specific body parts or processes in your answer.

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