Centre Number	Candidat

te Number

Name

CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

BIOLOGY

Paper 5 Practical Test

WANN, PapaCambridge.com October/November 2003

1 hour

0610/05

Candidates answer on the Question Paper. No additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces provided at the top of this page. Write in dark blue or black pen in the spaces provided on the Question Paper. You may use a soft pencil for any diagrams, graphs or rough working. Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer both questions.

The number of marks is given in brackets [] at the end of each question or part question.

If you have been given a label, look at the details. If any details are incorrect or missing, please fill in your correct details in the space given at the top of this page.

Stick your personal label here, if provided.

FOR EXAMINER'S USE		
1		
2		
TOTAL		

This document consists of 7 printed	pages and a Supervisor's Report.
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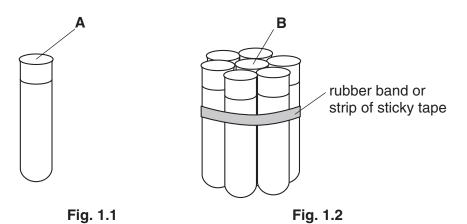
1 Introduction

Warm-blooded animals need to maintain a constant internal temperature.

In cold weather some of these animals crowd closely together in a group.

Www.PapaCambridge.com To investigate the advantages of crowding together in such a group you will investigate the drop in temperature of hot water in a test-tube.

- Test-tube **A** will be used to represent a single animal as shown in Fig. 1.1.
- Test-tube **B** will be used to represent part of a crowded group of animals using 7 tubes as shown in Fig. 1.2.



Read the whole question before you begin the experiment.

(a) Prepare a results table to record your readings, which should include the starting temperature and five readings taken at two minute intervals for the single test-tube, A, and the central one, **B**, in the group.

Results Table

[5]

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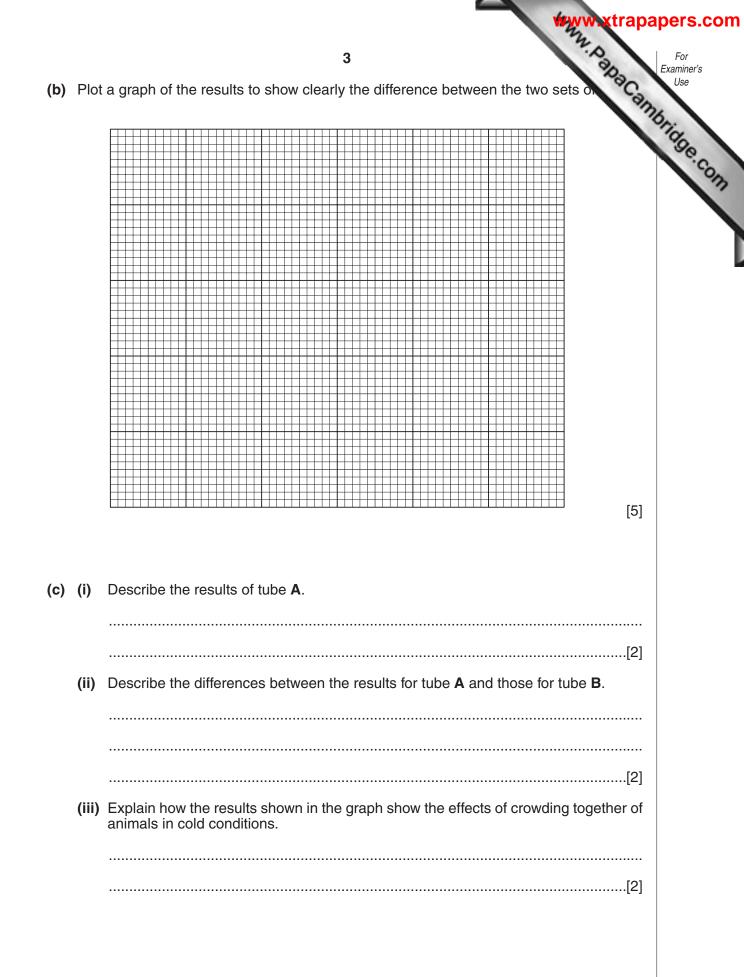
Support the tubes in two containers.

Indicate to your Supervisor, by raising your hand, when you are ready to fill the testtubes.

Quickly fill all of the test-tubes with the same depth of hot water. Test-tubes should be filled to within 2 cm of the top.

As soon as the water is in the test-tubes, start the clock or record the time. Use thermometers and record the temperature in tubes A and B at the start and every two minutes until 10 minutes have passed.

2



	4	For Examiner's
(iv)	Suggest and explain two ways you could extend the investigation if you hat time.	Use
	4 Suggest and explain two ways you could extend the investigation if you have time.	145e.co.
	2	137
	2	
	[4] [Total : 20]	

- 2 You are provided with an insect, labelled W1.
- ble this animures. Details of (a) (i) Make a simple, outline drawing of W1 to show the features that enable this animal to be classified as an insect. Label clearly three of these insect features. Details of the legs are **not** required.

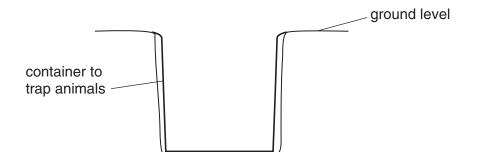
[6]

(ii) Measure the length of the insect and the length of your drawing. Draw a line on your drawing to show the length you have measured. Calculate the magnification of your drawing.

length of insect	
length of drawing	

magnification[3]

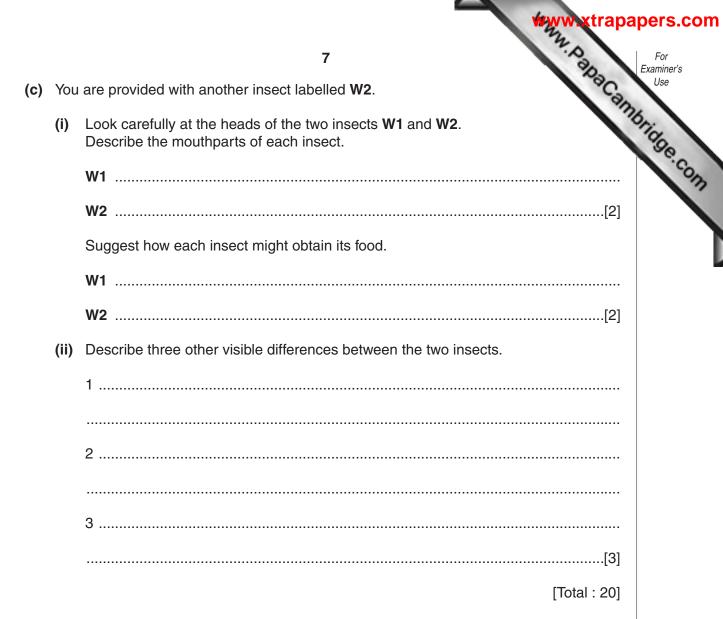
For Examiner's Use Use Combined (b) One method of catching insects, such as ground-living beetles, is to use a pit-fail tin or alternative container is sunk into the ground so the rim is level with the soil su as shown in Fig. 2.1.





Suggest and explain briefly two precautions you might take or improvements you might make when catching insects, such as ground-living beetles, using pit-fall traps.

.....[4]



SUPERVISOR'S REPORT

8

- WANN, PapaCambridge, com * The Supervisor or Teacher responsible for the subject is asked to answer the following question
- 1 Was any difficulty experienced in providing the necessary material? If so, give brief details.
- 2 Did the candidate experience any difficulty during the examination as a result of faulty material? If so, give brief details.
- 3 Did the candidate suffer any accidents with apparatus or materials? If so, give brief details.
- Please state any other information that is likely to assist the Examiner, especially if this cannot 4 readily be discovered from the answers.
- 5 Please identify W1 and W2.

W1 W2

Declaration (to be signed by the Principal, and completed on the top script from the Centre)

The preparation of the practical examination has been carried out so as fully to maintain the security of the examination.

Signed

Name (in block capitals)

*Information that applies to all candidates need be given only once.

N.B. If scripts are required by CIE to be despatched in more than one envelope, it is essential that a copy of the relevant Supervisor's Results (when requested), the Supervisor's Report and the appropriate seating plan are sent inside each envelope