UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

Paper 6 Alternative to practical

NAL EXAMINATIONS indary Education 0610/06

October/November 2004

1 hour

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

Candidate Name					
Centre			Candidate		
Number			Number		

READ THESE INSTRUCTIONS FIRST

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

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

DO NOT WRITE IN THE BARCODE.

DO NOT WRITE IN THE GREY AREAS BETWEEN THE PAGES.

If you have been given a label, look at the
details. If any details are incorrect or
missing, please fill in your correct details
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Stick your personal label here, if provided.

For Examiner's Use		
1		
2		
3		
4		
Total		

This document consists of **8** printed pages.

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(b)	Compare the two wor similarity. The first has been dor	3 rms by completing the table to he for you.	show three differences a	trapapers.com
		worm A	worm B	Se.com
	difference 1	smaller	larger	
	difference 2			
	difference 3			
	similarity			

[3]

(c) Name the groups to which the two worms belong.

worm A	
worm B	
	[1]

[Total : 8]

2 Blackspot is a disease of rose leaves caused by a fungus. The spots are composed tissue. The disease appears in polluted and non-polluted areas.

posed campbridge com Fig. 2.1 shows the spots present on 25 leaflets from rose bushes sampled at random from a polluted area and a non-polluted area. The black spots are visible in the drawings.





(a) Count the number of spots on each leaflet and record the information in the tally chart.

number of spots	number of leaflets from polluted area	number of leaflets from non-polluted area
0		
1		
2		
3		
4		

4



- Many fruits and vegetables change colour when cut open and exposed to the oxyge 3 air.
 - The cut surface of apples becomes brown after a few minutes. •
- Www.PapaCanibridge.com If the apple is dipped in an acidic fruit juice, such as lemon, and exposed to air, it • does not change colour.
 - If the apple is cooked and then cut open, it does not change colour.
 - (a) Suggest how the colour change observed at the cut surface of the apple occurs. Use evidence from the treatment of pieces of apple referred to above to support your answer.

explanation	 	
evidence		
		[6]
		[0]

(b) Plan an investigation to show the effect of pH on the colour change in apple.

.....[5]

[Total : 11]

4 Fig. 4.1 shows a leaf that is divided into leaflets.





(a) (i) Make a large labelled drawing of the leaf base and the bottom pair of leaflets.

(ii) State two features that are visible in Fig. 4.1 which identify this as a leaf from a dicotyledon.
feature 1 feature 2

WWW.xtrapapers.com

[6]



Fig. 4.2

(i)	Name and label the different layers of cells on Fig. 4.2.	[3]

(ii) Using letters X and Y, label on Fig. 4.2 two different types of cells that contain chloroplasts. [1]

[Total : 12]

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Question 4 Fig. 4.2 © Biophoto Associates

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