Rewarding Learning	Centre Number Candidate Number Candidate Number
Biology	
Unit 1	
Foundation Tier	
GBY11]	*00\/44*
WEDNESDAY 5 JUNE, AFTERNOON	*GBY11*
ТІМЕ	

1 hour 15 minutes.

#### INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

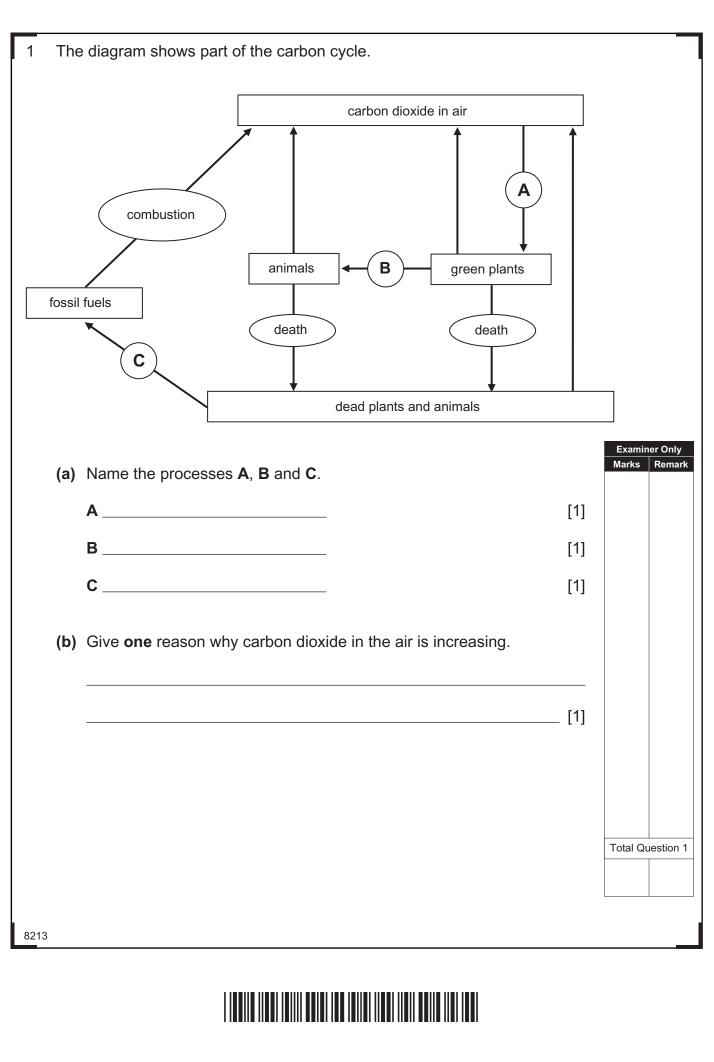
You must answer the questions in the spaces provided. Do not write outside the box, around each page or on blank pages.

Complete in blue or black ink only. **Do not write with a gel pen**. Answer **all twelve** questions.

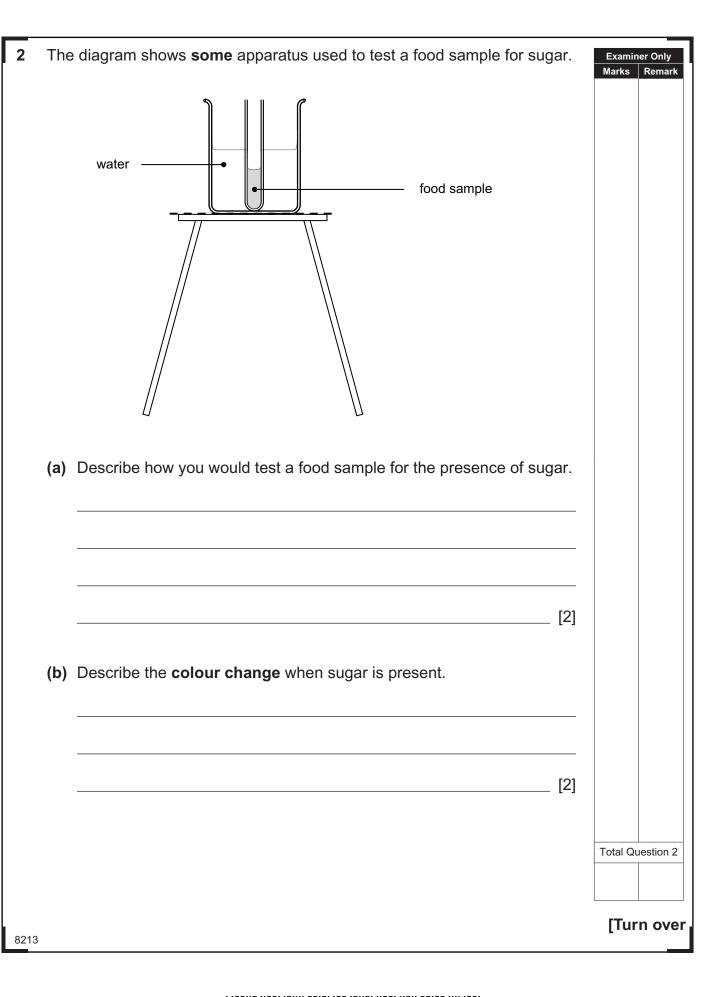
#### INFORMATION FOR CANDIDATES

The total mark for this paper is **80**. Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question. Quality of written communication will be assessed in questions **4 and 12**.

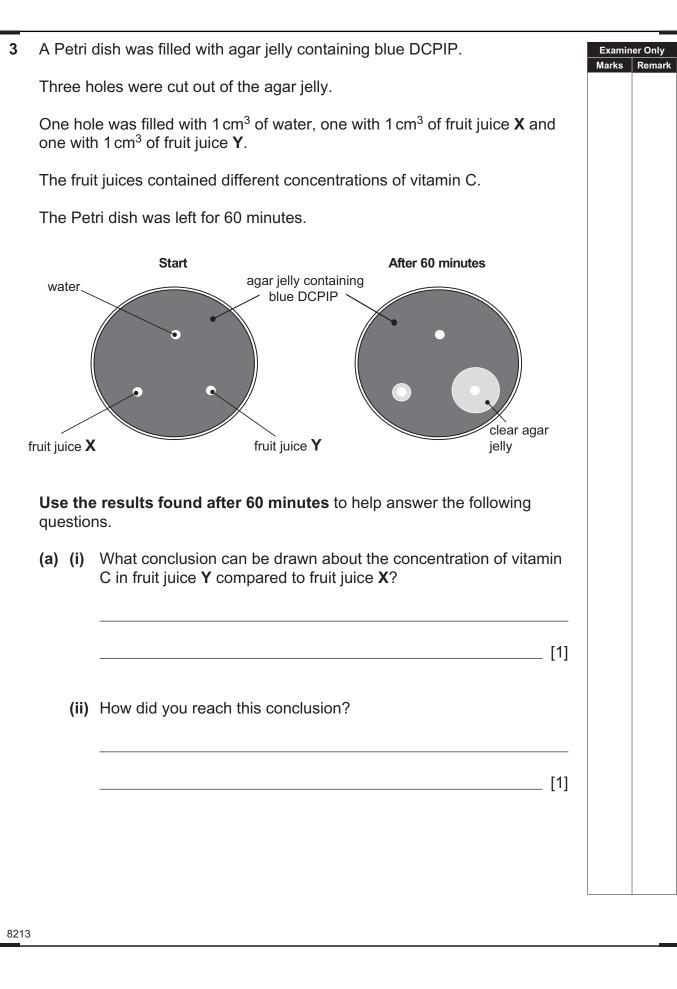
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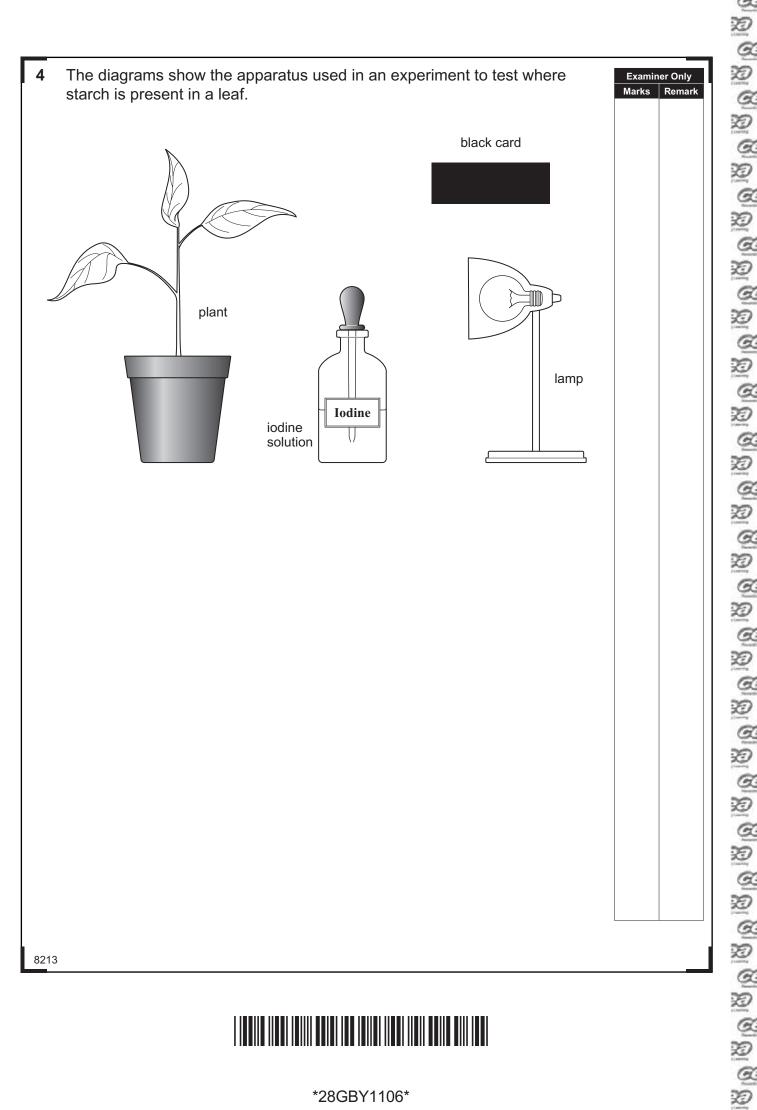
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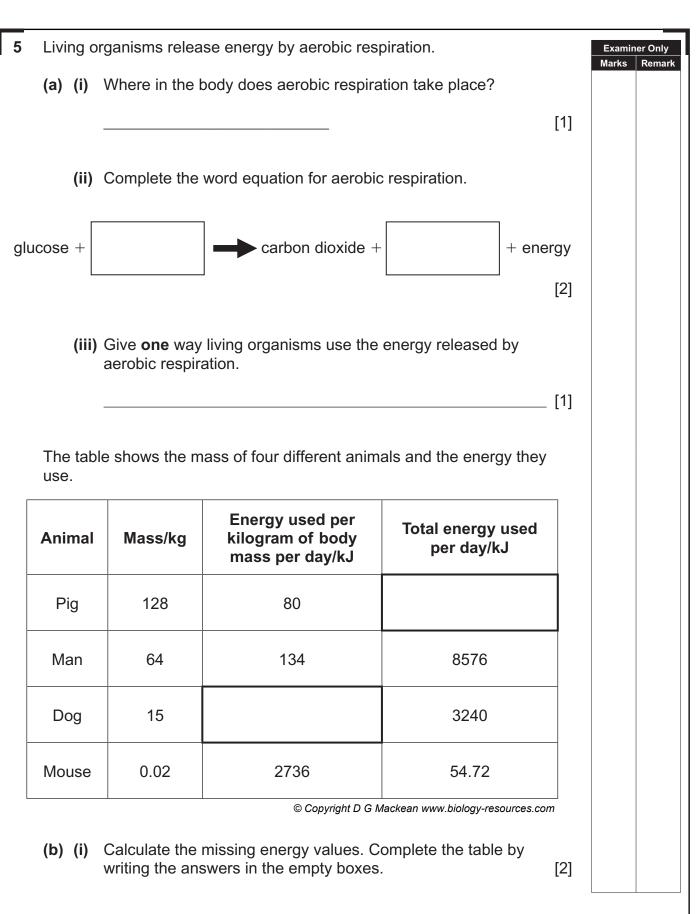
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	(iii) Explain the changes shown in the jelly around the fruit juices.		Examin Marks	er Only Remark
		_ [2]		
(b)	Why was water added to one of the holes?	_ [4]		
		_ [1]		
			Total Qu	lestion 3
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m and adodu	on, you will be assessed on your written communicat	tion		
	ng the use of specialist scientific terms.			
		[6]		
		_ [0]		
			Total Qu	uest





\*28GBY1108\*

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Ð	<b>—</b> —	(11)	
30		(ii)	Describe the relation the animal and the
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ibe the relationship shown in the table between the mass of imal and the	Examiner Only Marks Remark
y used per kilogram of body mass per day.	
mount of energy used per day.	
[1]	
	Total Question 5
	[Turn over

6	The diagram shows a section through an eye.	Examiner Only Marks Remark
	Image: Note of the second se	
	© Dr C J Clegg – Manimals Structure & Punction by Dr C J Clegg, published by John Munay, 1996.	
	(a) Name parts A, B and C.	
	A[1]	
	B[1]	
	<b>C</b> [1]	
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\*28GBY1110\*

(b)	Describe the function of the	Exami Marks	ner Only Remark
	iris		TROMULA
		[2]	
	lens		
		[2]	
	retina.	_	
		[1]	
		Total Q	uestion 6
2040		[Tu	rn over
3213			

\*28GBY1111\*

7 The pho D	otograph shows a leaf cell.		Examiner Only Marks Remark
(a) (i)	Name parts <b>A</b> and <b>B</b> .		
	A	[1]	
	В	[1]	
(ii)	Give the letter of the part which contains		
(11)	Give the letter of the part which contains cellulose.	[1]	
	chlorophyll.	[1]	
		[,]	
8213			

\*28GBY1112\*

<b>(b)</b> The	e diagram shows a Salmonella bacterium.	Examiner Only Marks Remark
cell wall	fagellum	
(i)	Name the structures labelled X.	]
Plar	nts do not have these structures.	
(ii)	Give <b>one other</b> way the Salmonella bacterial cell differs from a plant cell.	
	[1	]
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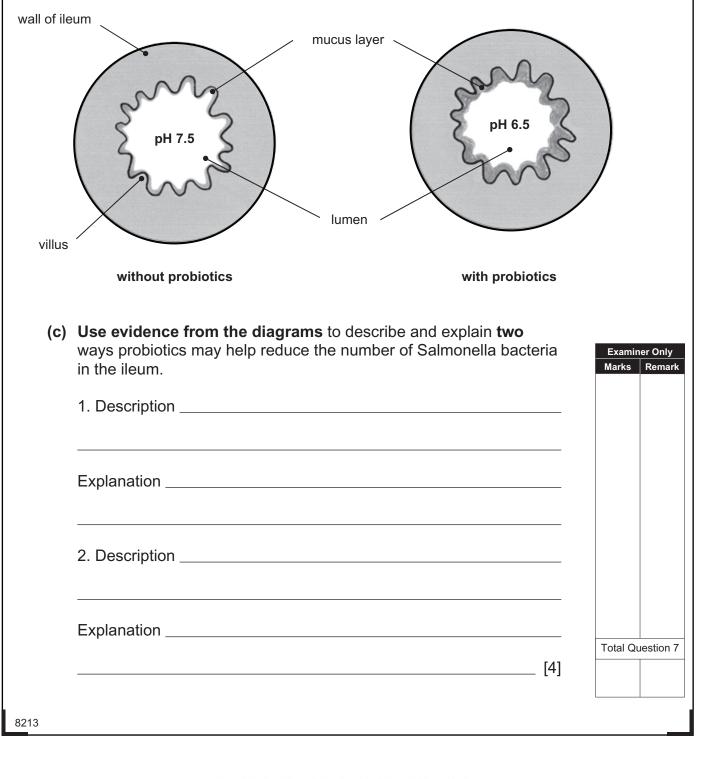
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Salmonella bacteria can cause food poisoning.

Some probiotic drinks contain living bacteria.

Manufacturers claim these can help reduce the risk of Salmonella food poisoning.

The diagrams show a section through the ileum of a person who does not take probiotic drinks and one who does.





\*28GBY1114\*

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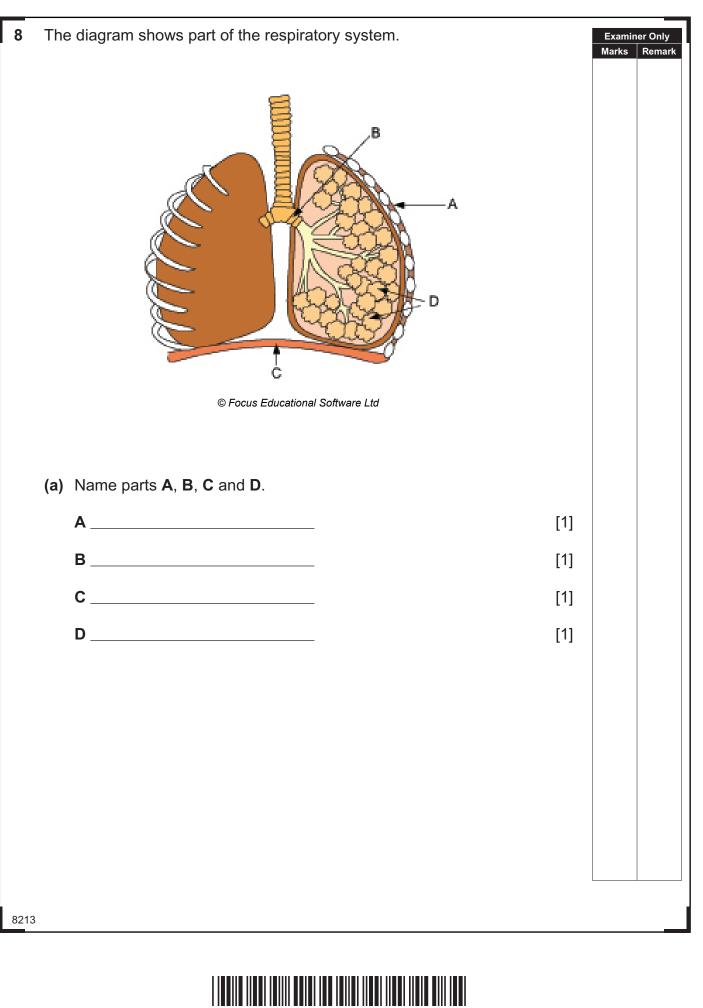
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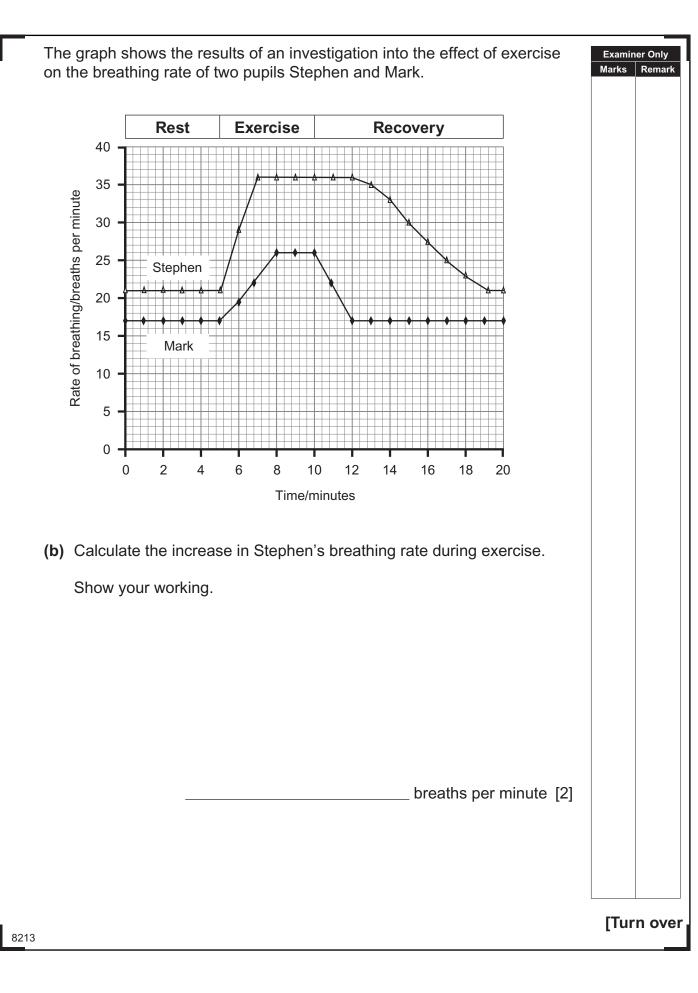
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\*28GBY1115\*



\*28GBY1116\*



(c)	Suggest which pupil in this investigation is fitter. Give <b>three</b> reasons for your choice, <b>using data from the graph</b> .		
	Pupil		
		[3]	
(d)	Describe how the pupils would have carried out this investigation to obtain these results.		
		[4]	
		r.1	

\*28GBY1118\*

	uring the investigation tephen was also measu
	he table shows the pere 4 and 8 minutes during
	Time/minu
	4
	8
(e	Suggest why there is
	Suggest why there is between 4 and 8 min

s also measured. ows the percentag	ge of oxygen in the air exhale	ed by Stephen		
inutes during the i				
Time/minutes	Percentage of oxygen in exhaled air			
4	16			
8	12			
the table and the	araph.	-		
why there is a diff 4 and 8 minutes.	ference in the percentage of	oxygen exhaled		
		[2]		
			Total Qu	lestion
			[Tur	

9 (a) Name two chemical elements found in all food molecules.

(b) Complete the table about components of the diet.

Component	Example	Source	Function	
Carbohydrate	Lactose		Energy	[1]
	D	Milk	Growth of bones and teeth	[1]
Mineral		Red meat	Needed for haemoglobin in red blood cells	[1]

Examiner Only Marks Remark

[1]

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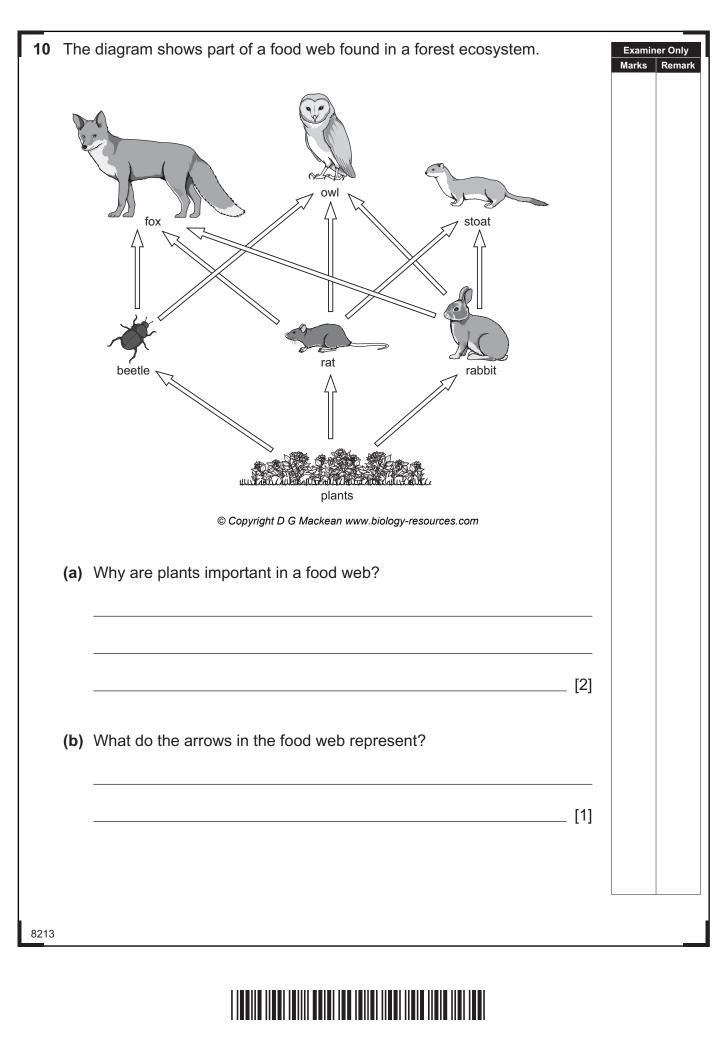
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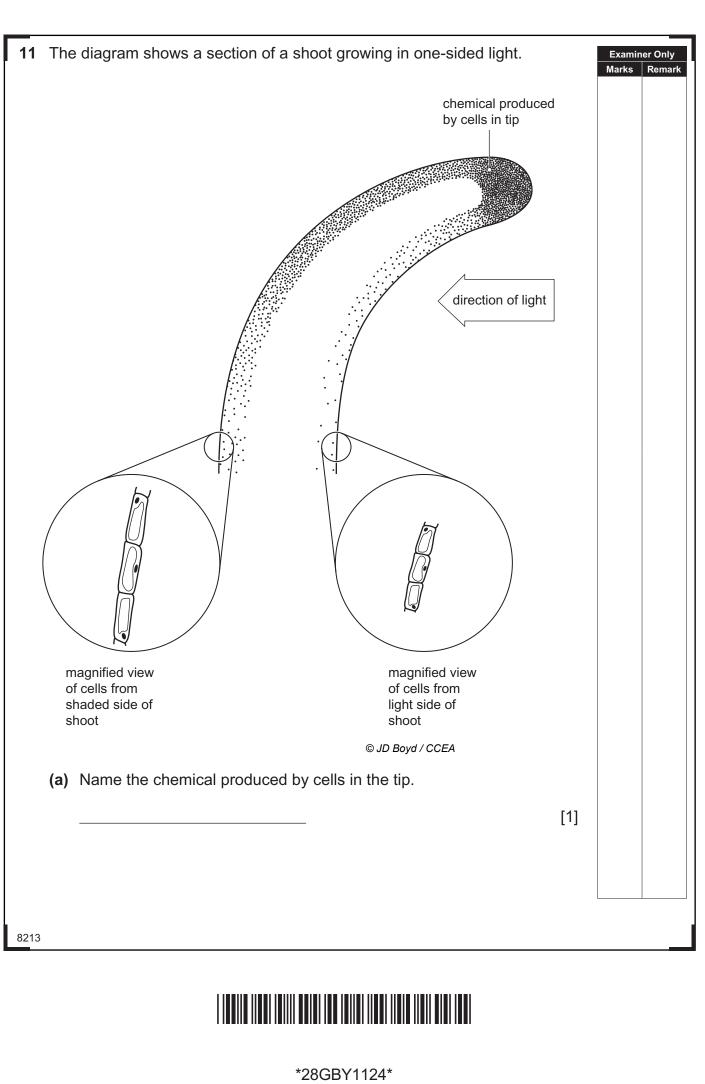


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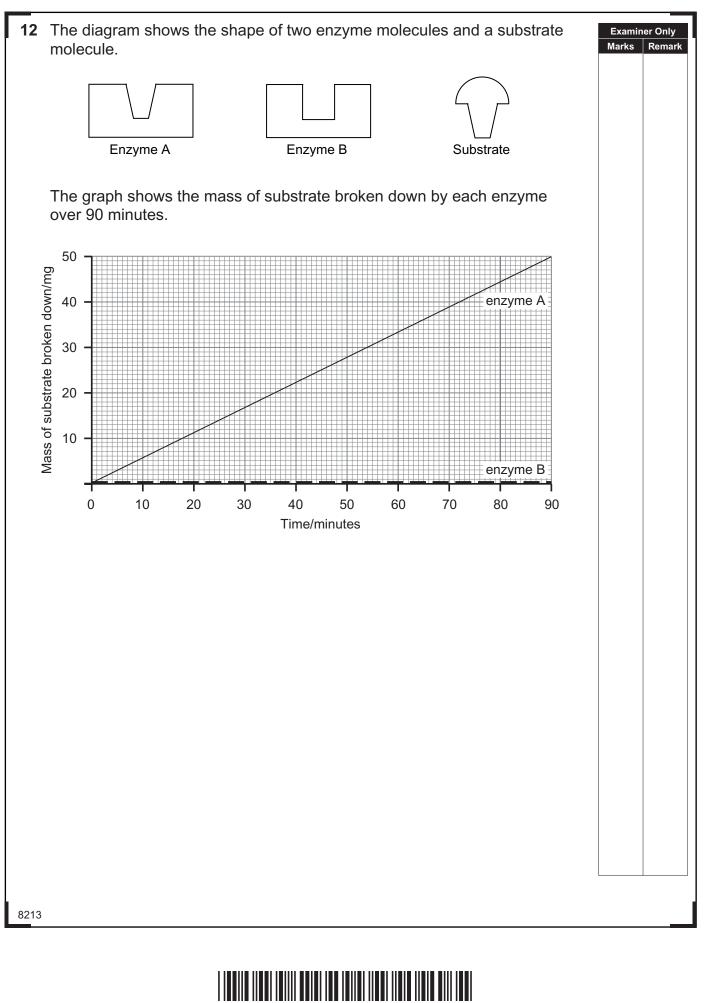
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(c) E>	plain how this may affect the number of stoats.		Marks Rer
(-)	······································		
		[2]	
		·	Total Questio
			[Turn c



Us		
	e the	e diagram to answer
(b)	(i)	Compare the distribution side of the shoot be
	(ii)	How has the chemic shoot?
(c)	Exp	plain the advantage to

e the	e diagram to answer the following questions.	Examii Marks	ner Only Remark
(i)	Compare the distribution of the chemical in the light and shaded side of the shoot below the tip.		
	[1]		
(ii)	How has the chemical affected the cells in the shaded side of the shoot?		
	[1]		
Exp	plain the advantage to the plant of bending towards light.		
	[2]		
		Total Qu	estion 11
		[lui	n over



\*28GBY1126\*

Use the information in the diagrams and your knowledge to help explain<br/>the shape of the two lines on the graph.Examiner Only<br/>MarksIn this question, you will be assessed on your written communication<br/>skills, including the use of specialist scientific terms.

\_\_\_\_\_ [6]

Total Question 12

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For Examiner's use only		
Question Number	Marks	
1		
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12		
Total Marks		

Examiner Number

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