Centre No.							Pape	er Refer	ence			Surname	Initial(s)
Candidate No.									/	2	В	Signature	
Paper Reference(s)													

5627/2B 5667/2B

Edexcel GCSE

Science: Double Award B (1536)

Biology B (1529)

(Modules 7 and 8)

Paper 2B

Foundation Tier

Wednesday 13 June 2007 - Morning

Time: 30 minutes

Materials required for examination	Items included with question pape			
Nil	Nil			

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initial(s) and signature, and complete the paper reference.

Check that you have the correct question paper.

Answer ALL the questions. Write your answers in the spaces provided in this question paper. Show all stages in any calculations and state the units. Calculators may be used.

Include diagrams in your answers where these are helpful.

Some questions must be answered with a cross in a box (\boxtimes). If you change your mind about an answer, put a line through the box (\boxtimes) and then mark your new answer with a cross (\boxtimes).

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). There are 7 questions in this question paper. The total mark for this paper is 30. There are 8 pages in this question paper. Any blank pages are indicated.

Advice to Candidates



This symbol shows where the quality of your written answer will also be assessed.

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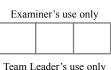


Turn over

Total



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Question Number

1

2

3

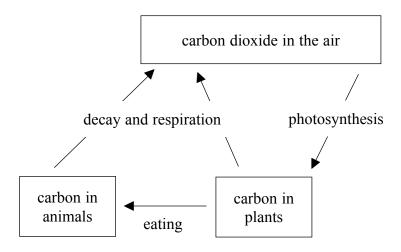
4

5

6

Answer A	ALL the questions. W	rite your answers in the s	paces provided.	Leave blank
		diagram of an animal cell.		
	cell wall	cell membrane		
	cytoplasm	nucleus		
				Q1
			(Total 3 marks)	

2. The diagram shows part of the carbon cycle.



(a) Use this diagram to help you decide which of the following materials will decay. Write the name of each material in the correct column in the table.

apple

bread

glass

stone

wood

will not decay

(2)

(b) Mark a cross (🗵) next to the correct word to complete each sentence.

decreases 🗵

- (i) As the number of microorganisms increases, decay **increases** \square
 - stops

(1)

decreases 🗵

X

- (ii) As the temperature increases from 10 to 40°C, decay increases

(1)

X

stops

- (iii) If the temperature increases to 100°C, decay increases
 - stops 🗵

decreases

Q2

(1)

(Total 5 marks)

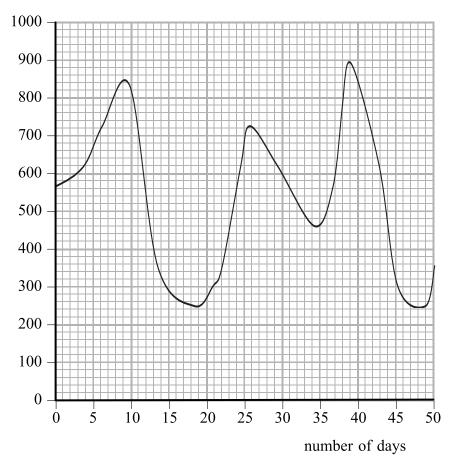
Paul has been smoking for many years and has been told by his doctor that emphysema.	t he has
(i) Emphysema affects the alveoli (air sacs). Label the position of an alveolus (air sac) on the diagram of the lungs.	(1)
(ii) These statements describe the development of emphysema in a smoker. They are not in the correct order.	
 There is less surface area to absorb oxygen. The alveoli walls are damaged. The person becomes 'breathless' and may need an oxygen mask. Smoke from cigarettes is inhaled into the lungs. 	
Write one number in each of the boxes below to show the correct order. One has been done for you.	
	(1)
(b) Paul is finding it hard to give up smoking.	
Suggest two things that Paul can do to help him give up smoking.	
1	
2	
	(2)

Leave blank

4. Slugs are garden pests.

The graph shows the number of slugs in a garden where pesticides are used.





- (a) Estimate from the graph, the highest number of slugs. (1)
- (b) On which day were pesticides first put on the garden?(1)
- (c) Choose words from the box to complete the following sentences.

biological chemical food predators prey

This is a form of control.

(2) Q4

(Total 4 marks)

		more
	Describe one way that 'the condition of her arteries' may have made the clot a likely to block her artery.	
		•••••
		(1)
	The doctor advised her to change her lifestyle by improving her diet and going walk each day.	for a
((i) Suggest one way that she may improve her diet and explain how this may he reduce the chance of having another heart attack.	elp to
		(2)
((ii) How might taking a walk each day help to reduce the chance of having and heart attack?	other
		(2)
	(Total 5 ma	rks)

- 1

Leave blank	7. Alex has just finished a race. She is breathing heavily and has cramp. Explain why Alex is still breathing heavily even though she has stopped running.
Q7	(T-4-1 4 l
	(Total 4 marks TOTAL FOR PAPER: 30 MARK END