Centre No.					Paper	Referer	nce (cor	nplete l	pelow)		Surname	Initial(s)
Candidate No.								/	2	В	Signature	
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5627/2B 5667/2B

Edexcel GCSE

Science: Double Award B (5667)

Biology B (5627)

(Modules 7 and 8)

Paper 2B

Foundation Tier

Thursday 16 June 2005 – Morning

Time: 30 minutes

Materials required for examination

Items included with question papers

Instructions to Candidates

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

Answer ALL questions 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.

Information for Candidates

The marks for the various 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 12 pages in this question paper. Any blank pages are indicated.

Advice to Candidates



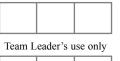
This symbol shows where the quality of your written answer will also be assessed.

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Examiner's use only

Question Number	Leave Blank
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Question Number	Leave Blank
1	
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7	

Turn over

Total



Answer ALL the questions. Write your answers in the spaces provided.

1. Some students counted the plants in three areas of land, A, B and C. Their results are shown below.

are	ea A	area B		area C
	%	X	R	
2	8			B B
			**************************************	R R
	2000s	A A		\$

key to plant types

clover	*
dandelion	

daisy	
violet	R

(a) Complete the table to show the results for areas ${\bf B}$ and ${\bf C}$.

area	number of types of plant	number of plants
A	3	9
В		
С		

(2)

(b) Give the name of the plant that is most common in area C.

(1)

(c) Complete the sentence.

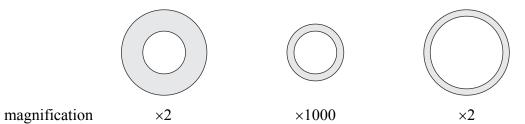
Plants use light to make food in a process called

(1) Q1

(Total 4 marks)

(a) (Choose words fr	rom the box to comple	ete the following ser	ntence.	
	cancer	cystic fibrosis	emphysema	measles	
		ettes causes diseases s			
					(2)
(b) (Give the name o	of one part of tobacco	smoke that damage:	s lung cells.	
					(1)
				(Total	3 marks)

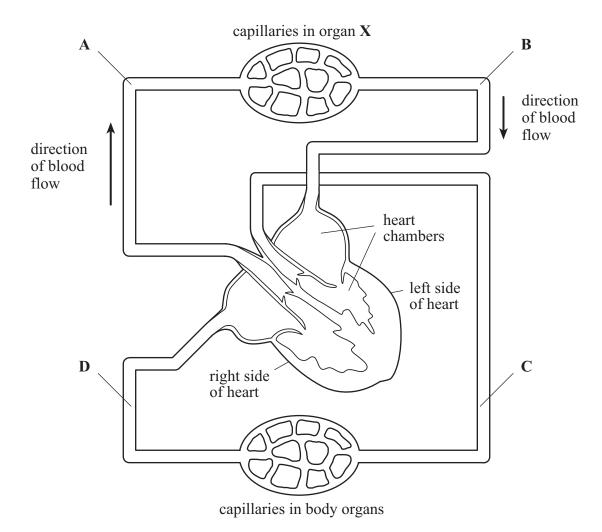
3. (a) The diagram shows cross sections of three types of blood vessel.



On the diagram above, label the artery.

(1)

(b) The circulation of blood round part of the body is shown below. The arrows next to blood vessels **A** and **B** show the direction of the blood flow.



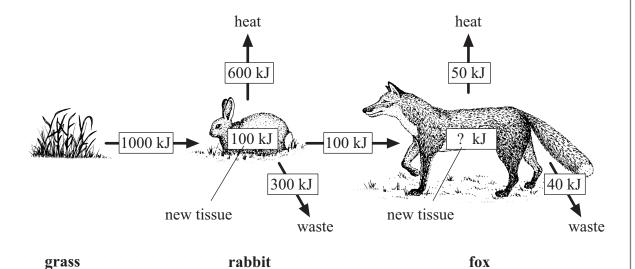
(i) On the diagram, draw arrows to show the direction of blood flow in vessels C and D.

(1)

	labelled blood vessel is the correct box for each		or a vein.		
	has been done for you.				
	blood vessel	artery	vein		
	A	✓			
	В				
	С				
	D				
(iii) Give	the name of organ X			(2	
(III) GIVE	the name of organ 1x			(1	
				(Total 5 marks)	

Leave blank

The diagram shows how energy is used in a food chain.



(a) Calculate the energy in new tissue in the fox.

excretion

k	J
(1)

(b) Choose words from the box to complete the following sentence.

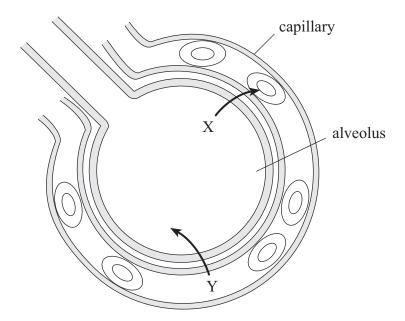
excretion	osmosis	photosynthesis	respiration
At each stage, er	nergy is lost fro	m the food chain by	
1			

Q4

(2)

(Total 3 marks)

6. Gas exchange takes place in an alveolus.



(a) Name

(i)	gas X	Z	
` '	•		(1)

(ii) gas Y(1)

(b) Gas Y is the product of respiration. Another product of respiration is also breathed out.

Name this substance.

(1)

		Leave blank
(c)	After sprinting 100 metres Faisa is breathing heavily. Also, she has cramp in her leg muscles.	
	Explain why Faisa has cramp.	
	(4)	Q6
	(Total 7 marks)	
	,	I

Leave blank 7. Read the following article.

Widespread deforestation continues to threaten the global environment.

There are no reliable figures for the extent of global deforestation. However

a)	Give two reasons for increased deforestation in recent years.
	1
	2(2)
(b)	Suggest one reason why there are no reliable figures for the extent of globa deforestation.
	(1)
(c)	During deforestation tree roots are often left in the soil.
(c)	During deforestation tree roots are often left in the soil. Carbon dioxide is released from the dead roots over several months.
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(Total 5 marks)

TOTAL FOR PAPER: 30 MARKS

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