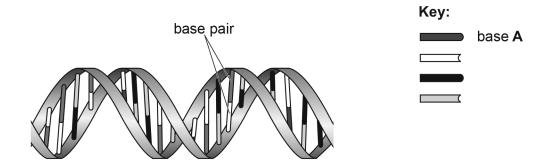
1 The diagram is of DNA.



(a)	(i)	State the	letter of	the base	that	pairs	with .	A.
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(ii)	State the letters of the other bases in DNA.	[1]
		[1]

[Total: 2]

2 The table shows some of the nutrients found in human milk, the elements that make up the nutrients, the enzymes that digest them and the products of digestion.

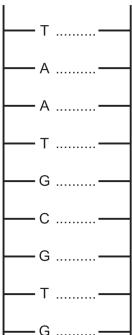
Complete the table.

nutrient	elements	enzyme	products of digestion
protein			
fat			
lactose (milk sugar)	С, Н, О		galactose and glucose (simple sugars)

[4]

[Total: 4]

	2
3	Protein can be broken down into amino acids.
	List four chemical elements that are always found in protein.
	1
	2
	3
	4
	[Total: 2]
4	The diagram shows part of a DNA molecule from a chromosome of a cat.
	Complete the diagram by writing the letters for the base sequence of the other strand of the DNA molecule.
	т



[1]

[Total: 1]

Proteins are large molecules.

	large molecule	smaller molecule
	cellulose	
	f-4	amino acids
	fat	fatty acids and glycerol
	glycogen and starch	latty doldo and gryocron
		glucose
	protein	
		r . .
		[Tota
21.1		
⊃hlo	em is used to transport sucrose	and amino acids in plants. Sucrose is a carbohydrate.
	em is used to transport sucrose	

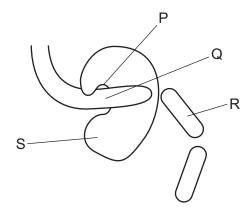
7 Enzymes are proteins.

State the chemical elements that enzymes are made from



[Total: 2]

8 The diagram shows a protease molecule catalysing the break down of a protein molecule.



What are the parts labelled P, Q, R and S?

	enzyme	product	substrate	active site
Α	Р	Q	R	S
В	R	S	Р	Q
С	S	Р	Q	R
D	S	R	Q	Р

[1]

[Total: 1]