Answer	all questions in the spaces provided.	
0 1 Many foods contain c	carbohydrates. mation about four different foods.	
	Figure 1	
Beans	Chicken	Carbohydrate Protein Fat Water
Orange	Rice	
0 1 . 1 Which food contains to Tick (✓) one box.	the highest percentage of carbohydrate?	[1 mark]
Beans		
Chicken		
Orange		
Rice		



Do not write outside the box

0 1 . 2	Estimate the percentage of water found in beans.	[1 mark]
	Percentage =	%
0 1.3	Look at Figure 1 . Why would eating only beans provide a more balanced diet than eating only ch	nicken? [1 mark]
0 1.4	Sugars are produced when enzymes break down starch. What is the name of the enzyme which breaks down starch to produce sugars Tick (✓) one box.	? [1 mark]
	Amylase Bile Lipase Protease	
0 1.5	Which chemical could be used to test for glucose? Tick (✓) one box. Benedict's reagent Biuret reagent Iodine solution Sulfuric acid	[1 mark]

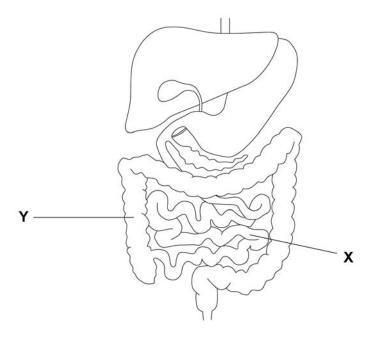
Turn over ▶



0 1.6	What colour change would be seen in a positive test for glucose? [1 mark]						
	From blue to						
0 1.7					glucose in		
	Table 1 shows the	ne results.					
	Table 1						
		with diabetes have difficulty controlling the concentration of glucose in lood. od of four people was tested. shows the results. Table 1 Person Concentration of glucose in blood in arbitrary units A 4.2 B 6.9 C 7.1 D 5.1 shows the information used to help decide if a person has diabetes. Table 2 Concentration of glucose in diabetes. Table 2 Concentration of glucose in blood in arbitrary units 4.0 5.6 No diabetes 5.6 to 7.0 No diabetes 5.6 to 7.0 Severe diabetes 1 mark					
		Α		4.2			
		В	6.9				
		С		7.1			
		D		5.1			
	Table 2 shows the	ne information u			n has	diabetes.	
		glucose in	Concentration of glucose in blood in		n		
		Concentration of glucose in blood in arbitrary units		No diabetes	3		
		5.6 to 7.0		Mild diabete	s		
		>7.0		Severe diabe	tes		
	Which person has severe diabetes? Tick (✓) one box.					I	[1 mark]
	A	В		c	D		

Figure 2 shows part of the human digestive system.

Figure 2



Name part X.

[1 mark]

0 1 . 9 Complete the sentences.

[2 marks]

Choose answers from the box.

active transport	digestion	excretion
osmosis	respiration	

Some glucose is absorbed into the bloodstream against the concentration gradient by the process of .

Water moves out of part \boldsymbol{Y} and into the bloodstream by

the process of

10

Turn over ▶



Question	Answers	Extra information	Mark	AO / Spec. Ref.
01.1	rice		1	4.2.2.1 AO3
01.2	25 (%)	allow an answer between 23 and 27 (%) ignore 1/4 / 0.25	1	4.2.2.1 AO2
01.3	(beans) contain all (four) food groups	allow converse for chicken allow chicken contains no / less carbohydrate or beans contain carbohydrate allow beans contain more nutrients ignore references to water / fat / protein	1	4.2.2.1 AO3
01.4	amylase		1	4.2.2.1 AO1
01.5	Benedict's reagent		1	4.2.2.1 AO1
01.6	(brick) red / green / yellow / orange / brown		1	4.2.2.1 AO1
01.7	С		1	4.2.2.1 AO3
01.8	small intestine	allow ileum ignore intestine unqualified do not accept large intestine / duodenum	1	4.1.3.3 4.2.2.1 AO1
01.9	active transport		1	4.1.3.2 4.1.3.3 AO1
	osmosis		1	AO1
Total			10	