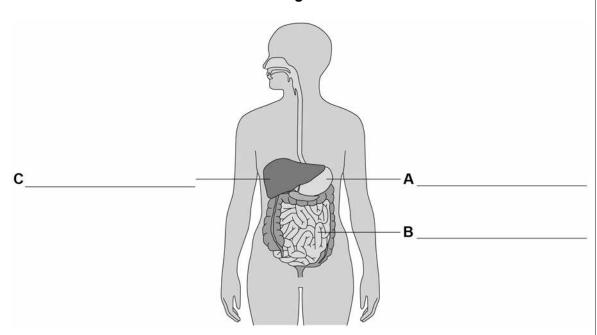
**0 3** Figure 5 shows the human digestive system.

Figure 5



0 3. 1 Label organs A, B and C.

[3 marks]

0 3 . 2 Complete the sentences.

[3 marks]

Choose the answers from the box.

catalyse	denatured	digest	energise
excreted	ingested	insoluble	soluble

Digestion is the proce	ess of breaking	down large	food mole	ecules into	smaller
molecules that are					

Enzymes help to break down food because they \_\_\_\_\_

If the temperature of an enzyme gets too high, the enzyme is

chemical reactions.



0 3.3	Protease is an enzyme.	Do not write outside the box
	Protease breaks down protein.	
	What is protein broken down into?	
	Tick one box. [1 mark]	
	Amino acids	
	Fatty acids	
	Glucose	
	Glycerol	
0 3.4	Why is protein needed by the body?  [1 mark]	
0 3.5	Which organ in the human digestive system produces protease?  [1 mark]  Tick one box.	
	Gall bladder	
	Large intestine	
	Liver	
	Stomach	

Turn over ►



0 3.6	Describe how you would test a sample of food to show it contains protein.		Do not write outside the box
	Give the reason for any safety precautions you would take.	[4 marks]	
0 2 7	Coronlate the contained		
0 3 . 7	Complete the sentence.  Choose the answer from the box.	[1 mark]	
	fat fibre minerals vita	amins	
	Obesity can be caused by a diet high in		
0 3.8	Complete the sentence.	[1 mark]	
	Choose the answer from the box.  skin cancer type 1 diabetes type 2 diabetes	]	
	Obesity is a risk factor for		15



Question	Answers	Extra information	Mark	AO / Spec. Ref.
03.1	(A) stomach		1	AO1 4.2.2.1
	(B) small intestine	allow ileum ignore intestine unqualified	1	
	(C) liver		1	
03.2	soluble	this order only	1	AO1 4.2.2.1
	catalyse		1	
	denatured		1	
03.3	amino acids		1	AO1 4.2.2.1
03.4	any <b>one</b> from:  • for growth  • for repair / replacement (of cells / tissues / organs)	allow for enzymes / hormones / antibodies allow to strengthen bones ignore for energy	1	AO1 4.2.2.1
03.5	stomach		1	AO1 4.2.2.1

Question	Answers			AO / Spec. Ref.
03.6	Level 2: Scientifically relevant facts, events or processes are identified and given in detail to form an accurate account.			AO1 4.2.2.1
	<b>Level 1:</b> Facts, events or processes are identified and simply stated but their relevance is not clear.			
	No relevant content		0	
	<ul> <li>Indicative content</li> <li>grinding up the food</li> <li>add Biuret reagent (allow CuSO<sub>4</sub> and NaOH) to food (sample)</li> <li>protein turns solution (from blue) to purple / lilac</li> <li>wear goggles to protect eyes</li> <li>clean up spills immediately</li> <li>Biuret / NaOH is an irritant / corrosive / poisonous</li> <li>for level 2 a reference to Biuret, a positive result and reason for a safety precaution is required</li> </ul>			
03.7	fat		1	AO1 4.2.2.1
03.8	type 2 diabetes		1	AO1 4.2.2.6
Total			15	