AQA - Biological Molecules - AS Biology P1

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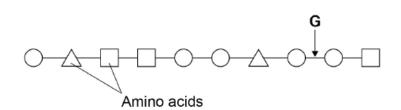
0 5 . 1 Describe how the structure of glycogen is related to its function.

[4 marks]



Figure 5 shows the primary structure of part of a polypeptide. Each shape represents an amino acid. Identical amino acids have the same shape.

Figure 5



0 5 . 2 Name the type of peptidase which will hydrolyse the bond labelled **G** in **Figure** 5. [1 mark]

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0 5 . 3	Give the number of different R groups in the polypeptide shown in Figure 5.
	[1 mark]

A scientist used an enzyme to digest a polypeptide containing 101 amino acids. The digestion produced a range of smaller polypeptides.

The scientist determined the number of amino acids in each of the polypeptides produced. He also counted the number of polypeptides of each length.

Table 1 shows some of the scientist's results.

Table 1

Number of amino acids in polypeptide	Number of polypeptides of each length
5	2
6	
15	3
20	

0 5 . 4	Use the information in Table 1 to calculate the number of polypeptides:	
	6 amino acids in length	
	20 amino acids in length	