0 1	A molecule of DNA contains four different bases. The four bases are arranged in a long chain. The chain of bases controls the synthesis of a protein.	е
	For example, the chain of bases could make a protein that determines eye of The diagram below shows some bases along a strand of DNA.	colour.
:	Amino acid 1 Amino acid 2 Amino acid 3 Amino acid 4 Amino acid Amino acid 1 Amino acid 2 Amino acid 3 Amino acid 4 Amino acid Amino acid 1 Amino acid 4 Amino acid Amino acid 1 Amino acid 4 Amino acid Amino acid 1 Amino acid 4 Amino acid Amino acid Amino acid 4 Amino acid Amino acid Amino acid 4 Amino acid Amino	
0 1 . 1	What word is used to describe 'a small section of a DNA molecule that contr the synthesis of a protein'? [1	rols mark]
0 1 . 2	In a cell, where are proteins synthesised?	mark]
0 1 . 3	Describe how proteins are synthesised from a chain of bases in DNA. Use t diagram to help you answer this question. [3 r	the marks]
0 1 . 4	Mistakes sometimes occur when DNA molecules are copied during cell divi Suppose that one of the bases, base A , was substituted by a C base.	ision.
	What might be the effect of this change in structure of the protein?	1 mark]