

Question 31**(9 marks)**

Condensation reactions between α -amino acids form polypeptides called proteins. The function performed by any given protein is determined by its structure, and the structures of proteins are described in terms of levels: primary, secondary and tertiary.

- (a) Define the primary structure of a protein, including a description and an annotated diagram to explain how the α -amino acid monomers are joined. (4 marks)

- (b) Explain the difference between the secondary and tertiary structures of proteins. Include a description of each level of the structure and how it forms in your answer. (5 marks)
