Additional questions on **Amino acids, dipeptides, tripeptides and proteins**

***All of the following questions have not (as yet!) appeared in the NCEA Level 3 Exams***

**1.**



“The dipeptide glyclyalanine is made up of amino acids.” Discuss this statement

**2.** Draw the structural formula of the following amino acids

|  |  |  |
| --- | --- | --- |
| **Serine**2-amino-3-hydroxypropanoic acid | **Glycine**aminoethanoic acid | **Alanine**2-aminopropanoic acid |

Draw a small section of silk, a polymer made up of repeating unit of the amino acids, put a square box around all of the peptide links

glycine - serine – glycine – alanine – glycine – alanine in that order

**3.** Draw the structures of alanine (2-aminopropanoic acid) as **i)** a zwitterion **ii)** in acidic solution and **iii)** in basic solution

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