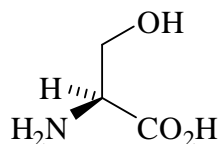
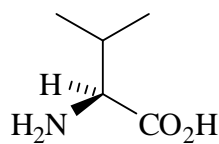


**Marks**  
**7**

- The amino acids serine and valine are shown below.



serine



valine

List the substituents attached to the stereogenic centre of **valine** in order of decreasing priority.

highest priority

lowest priority

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Assign the absolute configuration of the stereoisomer of valine shown above.

Draw a dipeptide formed by the condensation of serine with valine.

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What are the two key elements of protein secondary structure?

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**THE REMAINDER OF THIS PAGE IS FOR ROUGH WORKING ONLY.**