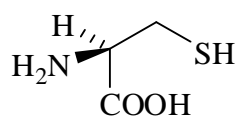
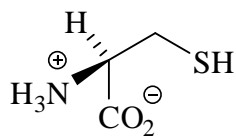


**Marks**  
**5**

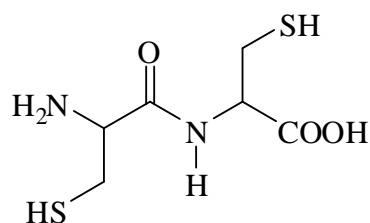
- Consider the amino acid L-cysteine shown below.



Draw the zwitterionic form of L-cysteine.



Draw the dipeptide L-cysteinyl-L-cysteine.

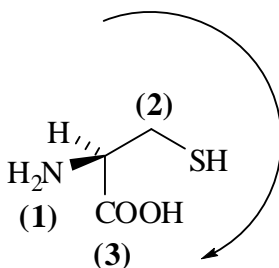


Assign the absolute configuration (*R* or *S*) of L-cysteine. Show your working.

**Absolute configuration is (*R*)-**

**Priorities:  $-\text{NH}_2 > -\text{CH}_2\text{SH} > -\text{COOH} > -\text{H}$**

**With H at back, the order of  $-\text{NH}_2 \rightarrow -\text{CH}_2\text{SH} \rightarrow -\text{COOH}$  goes clockwise**



Draw the enantiomer of L-cysteine.

