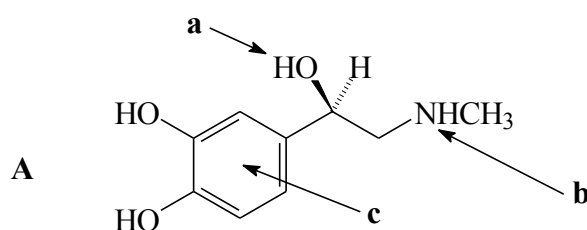


Marks
6

- Adrenaline (**A**) is produced by the body as part of its “flight or fight” response.



- On the above diagram, clearly mark the stereogenic centre in (**A**) with an asterisk (*).
- List the substituents attached to the stereogenic centre in descending order of priority according to the sequence rules.

highest priority

lowest priority

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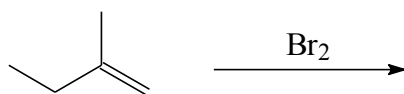
- What is the absolute stereochemistry of adrenaline (**A**)? Write (*R*) or (*S*).

- Name the functional groups **a**, **b** and **c**, present in adrenaline (**A**)?

a =**b** =**c** =

- Give the stick representation of the product formed when bromine reacts with 2-methylbutene.

2



State whether the product formed by this reaction is *achiral*, the (*S*)-*enantiomer*, the (*R*)-*enantiomer*, a *meso*-*compound* or a *racemic mixture*?