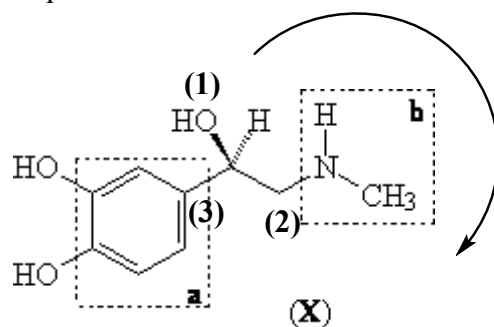
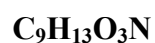


Marks
6

- Adrenaline (**X**) is a naturally occurring hormone and neurotransmitter that is released by the human body in response to stress.


 What is the molecular formula of (**X**)?


List the substituents attached to the stereogenic centre in descending order of priority according to the sequence rules.

highest priority			lowest priority
—OH	$\begin{array}{c} \text{H} \\ \\ \text{—CH}_2\text{—N—CH}_3 \\ \text{(-C-N-C)} \end{array}$	 (C-C-C-)	—H

 What is the absolute stereochemistry of (**X**)? Write (*R*) or (*S*).

(*R*)

 Name the functional groups, highlighted by the boxes **a** and **b**, present in (**X**).

a = aromatic ring (arene)
b = secondary amine