Marks Adrenaline (A) is produced by the body as part of its "flight or fight" response. 6 Η HO NHCH₃ A ь HO (i) On the above diagram, clearly mark the stereogenic centre in (A) with an asterisk (*). (ii) List the substituents attached to the stereogenic centre in descending order of priority according to the sequence rules. highest priority lowest priority OH CH₂NHCH₃ aromatic ring Η (iii) What is the absolute stereochemistry of adrenaline (A)? (**R**) Write (R) or (S). (iv) Name the functional groups **a**, **b** a = alcohol and **c**, present in adrenaline (**A**)? b = amine c = aromatic 2 Give the stick representation of the product formed when bromine reacts with 2-methylbutene. Br_2 * Br

BrState whether the product formed by this
reaction is achiral, the (S)-enantiomer,
the (R)-enantiomer, a meso-compound or
a racemic mixture?There is a single stereogenic centre in
the product. Although addition of Br2
is stereospecific, either enantiomer can
be formed: a racemic mixture