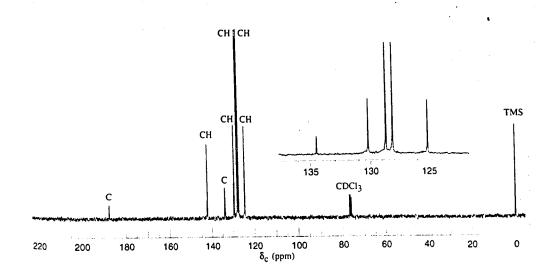
5. Stirring 1 mol of acetone and 2 mols of benzaldehyde in a hot mixture of KOH/ethanol for an hour yields a precipitate, whose ¹³C NMR spectrum is shown below.

Write out the reactions that occurred to form the product (full mechanisms <u>not</u> required), and write the structure of the final product in the box. (10 marks)



Structure: