• Classify the starting materials of the following reactions as nucleophile or electrophile and indicate with $\delta \oplus$ and $\delta \ominus$ the polarisation of the C–Br and C=O bonds.

Marks 4

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• Consider the following reaction sequence.

A NaOH

OH

OH $\frac{1) \text{LiAlH}_4}{2) \text{H}^{\oplus}}$ B

SOCl₂

excess methanol

C

HN(CH₃)₂

F

conc. HCl/heat

Draw the structures of the major organic products, A-F, formed in these reactions.

A	D
В	E
С	F