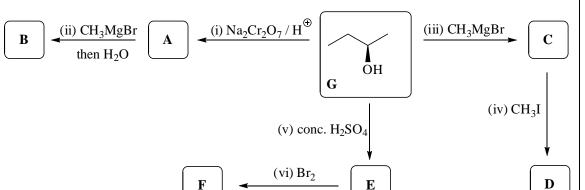
Marks

10

• Consider the following reaction sequences beginning with the alcohol **G**.



What is the systematic name for **G**?

(R)-2-butanol

Suggest structures for compounds A - F in the reaction sequences above.

A	В	С
0	ОН	O _⊖ ⊕ MgBr
D	E	F
	and/or	Br Br

What type of reaction is occurring at each of the following steps?

Step (iii)	acid/base
Step (iv)	S _N 2 (nucleophilic substitution)
Step (v)	elimination
Step (vi)	electrophilic addition