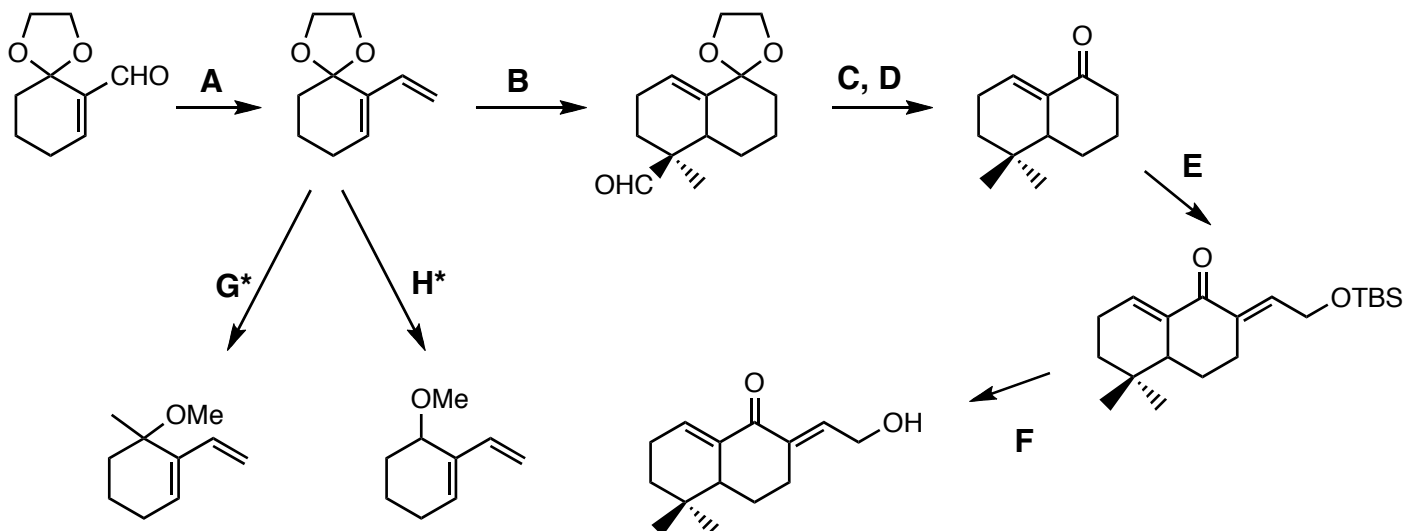


Name: _____

p 1	40		p 4	40	
p 2	40		p 5	40	
p 3	40		Total	200	

I. (20 pts) Provide the reagents necessary (**A–F**) for each step of the following reaction. You may include an aqueous workup in an step, as needed.

(12 pts) Provide the reagents needed for transformations **G** and **H** (*more than one step).



A	B	C	G*
D	E	F	
			H*

II. (8 pts) Predict the major product(s) expected for each of the following reactions. Remember to indicate stereochemistry, when appropriate. If no reaction is expected, write N/R.

