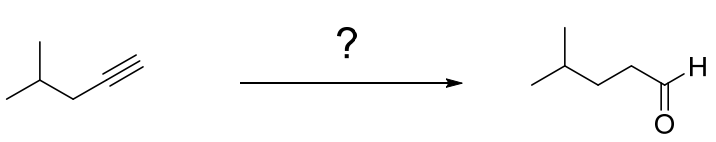
Chem 220 Quiz 8 Green

Name:_____

1. Circle the reagents required for the given reaction. (1 point)



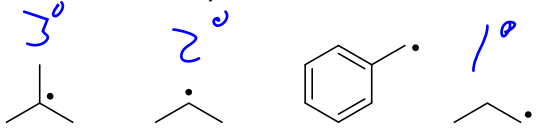
a. conc. H_2SO_4

b. 1. O_3
2. DMS

c. 1. 9-BBN
2. NaOH, H_2O_2

d. $HgSO_4$, H_2SO_4
H_2O

2. Rank the stability of these radicals from **least stable to most stable**. (1 point)



3° 2° 1°

resonance

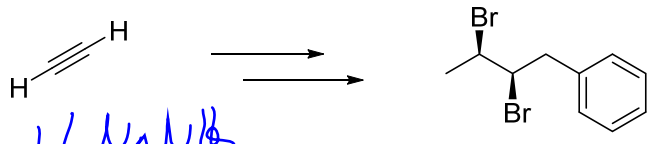
a. I<II<III<IV

b. IV<II<I<III

c. IV<II<III<I

d. III<IV<II<I

3. Provide a synthesis for the following transformation. (4 points)



4. a. Provide a mechanism for the following reaction and label each step as initiation (I) or propagation (P.
b. Provide one reasonable termination step (T). (4 points)