

**Chemistry 172Q**  
**March 2, 2006**

**Exam 2**

1 \_\_\_\_\_/25

2 \_\_\_\_\_/25

3 \_\_\_\_\_/35

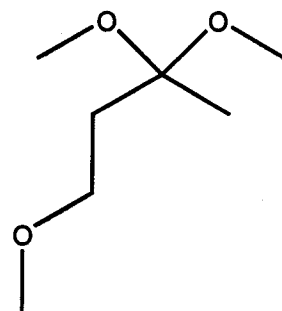
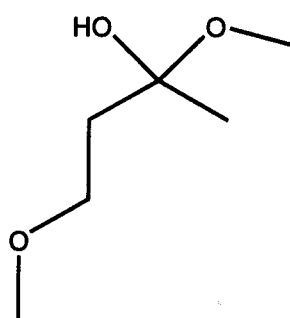
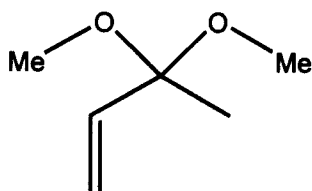
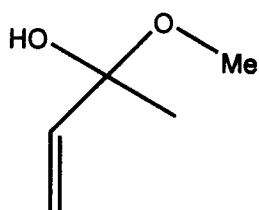
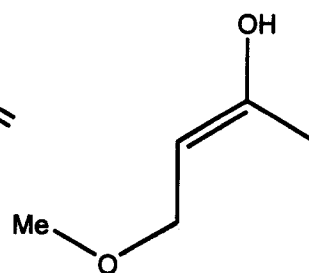
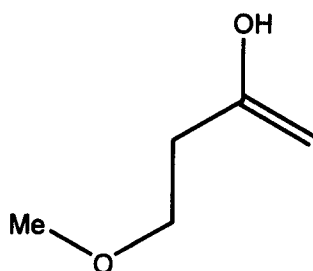
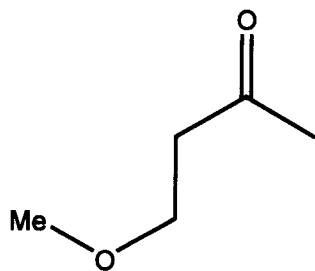
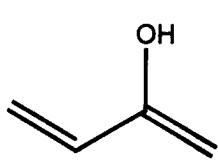
4 \_\_\_\_\_/40

**Total** \_\_\_\_\_/125

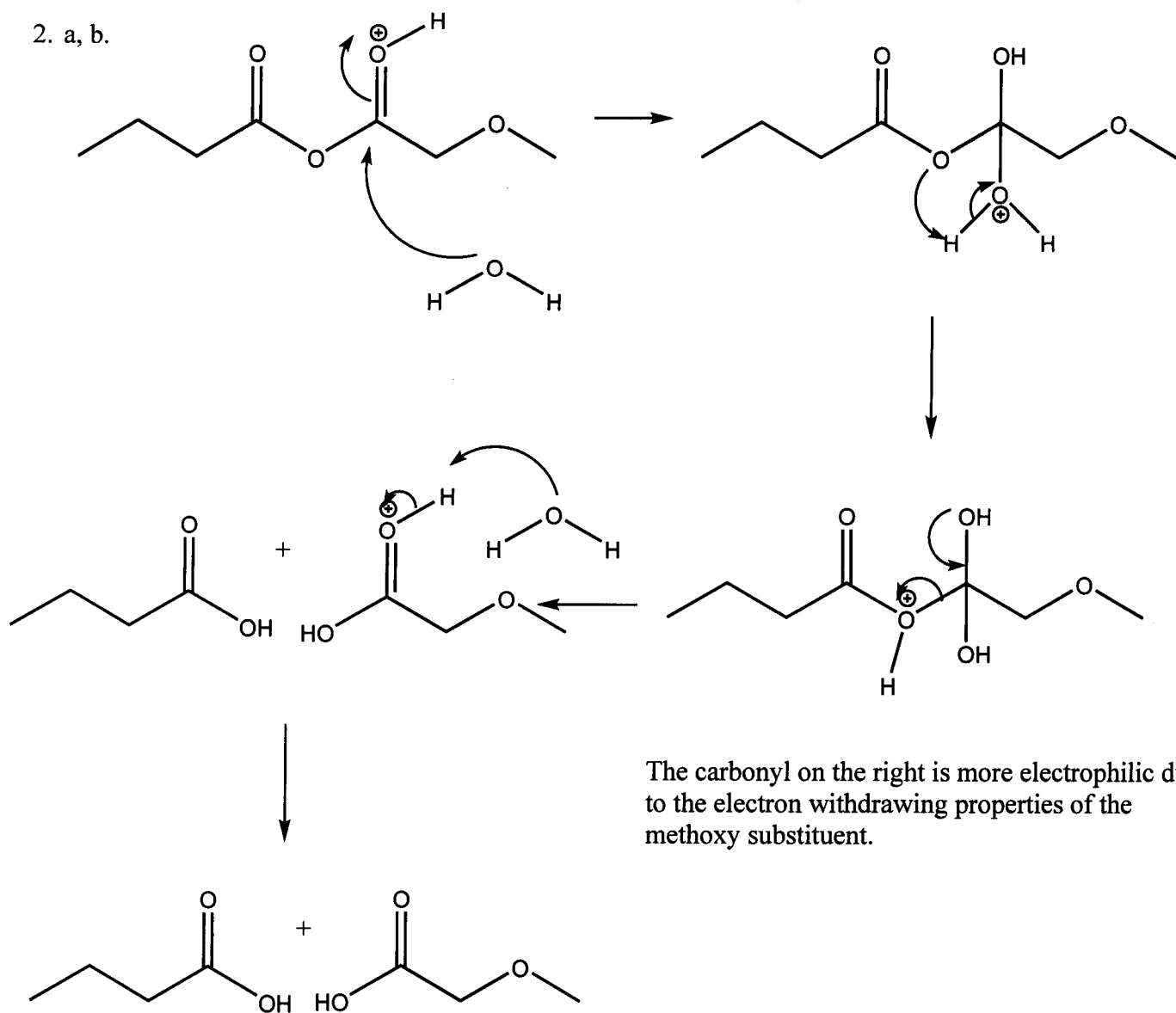
**NAME**

ANSWER KEY

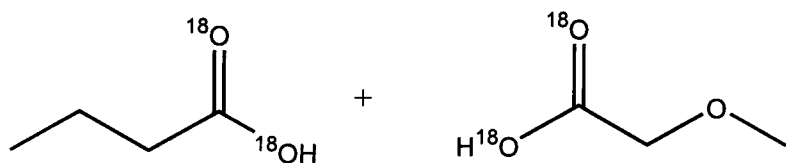
1.



2. a, b.

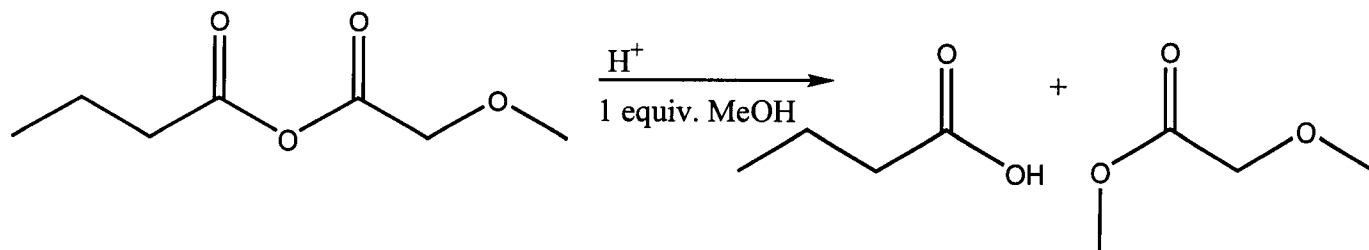


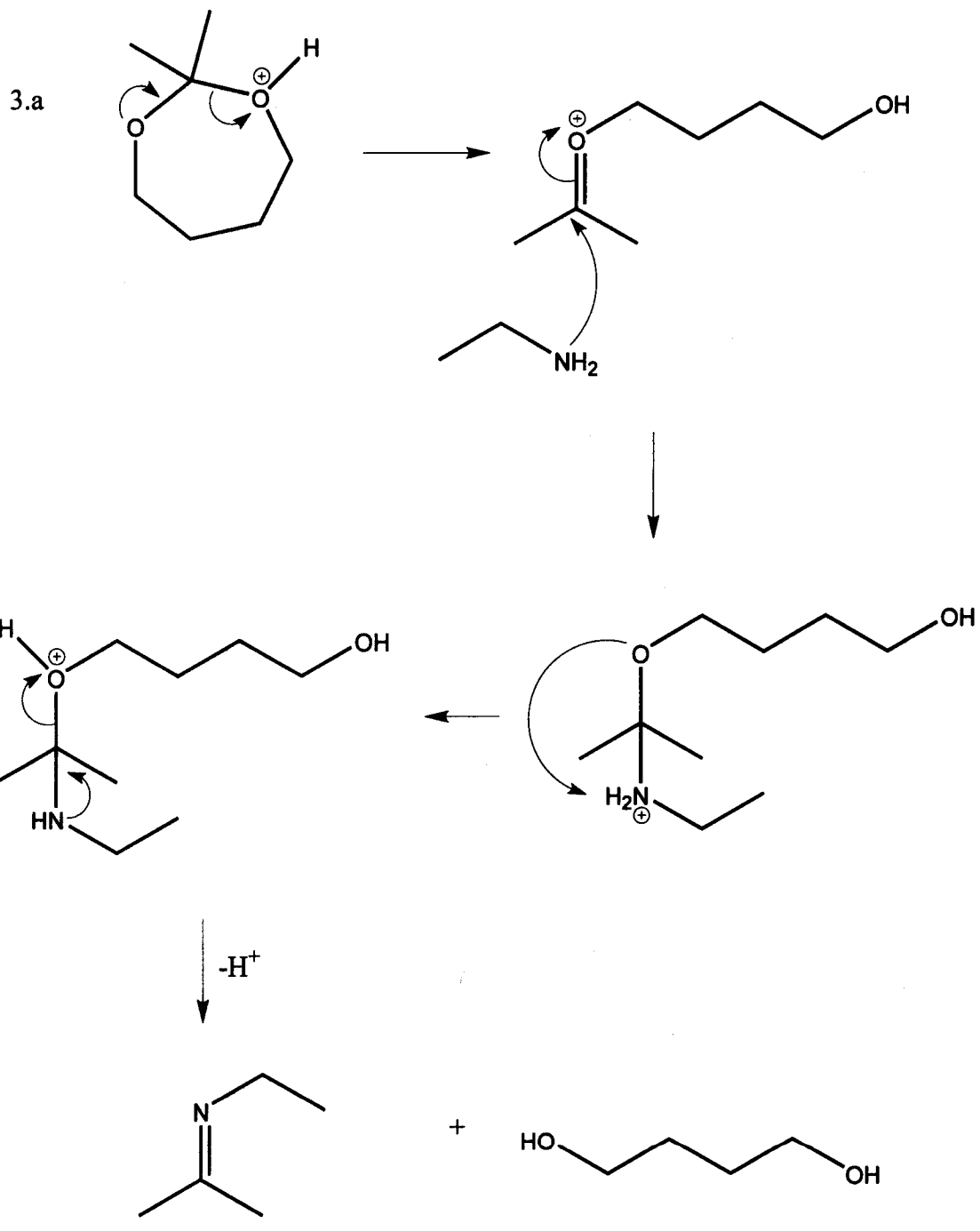
c.



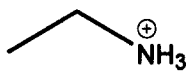
Eventually all oxygens will be replaced with  $^{18}\text{O}$

d. Reacting with any nucleophile will do:

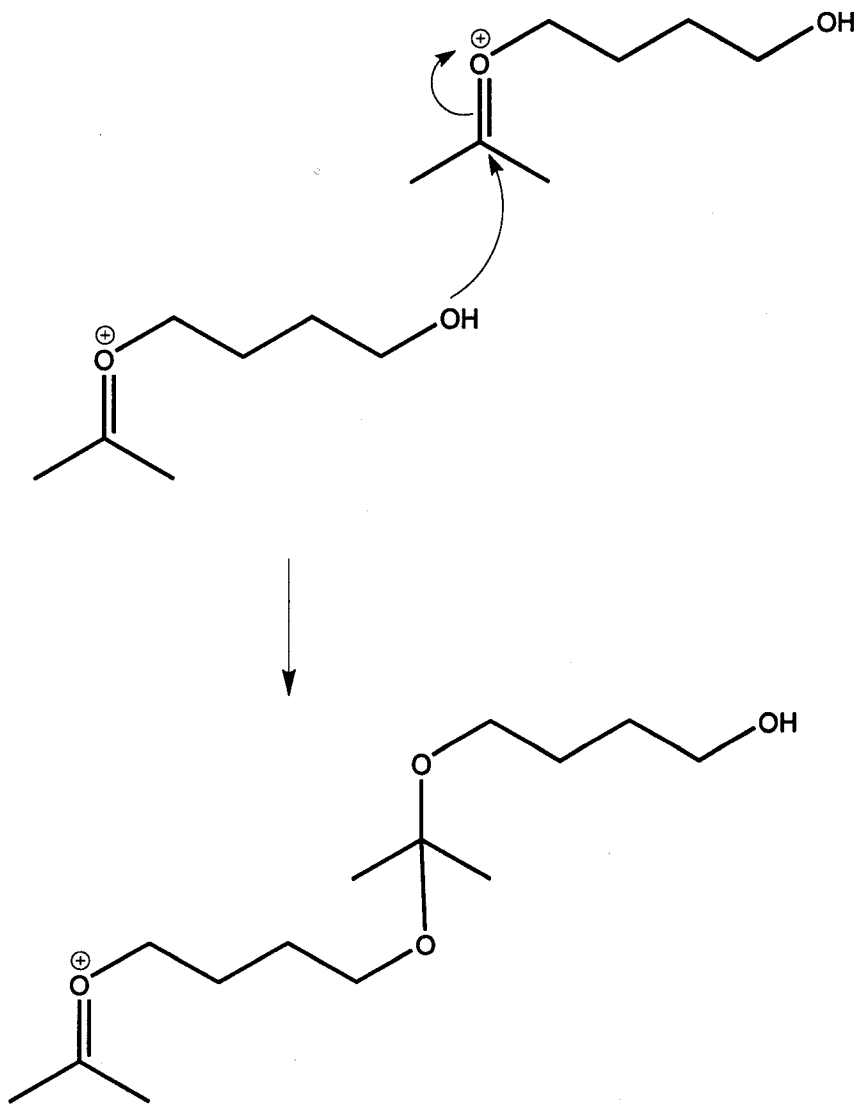




3b. Ethyl amine will be protonated so it cannot act as a nucleophile



Polymerization will occur as a result:



etc.

4.

