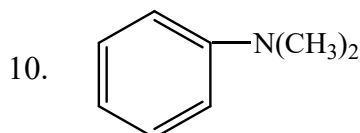
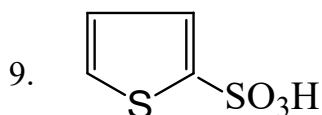
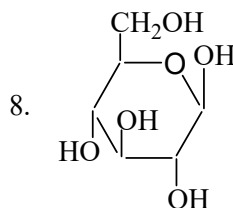
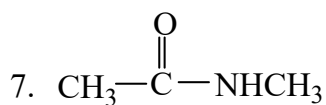
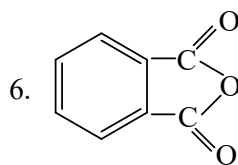
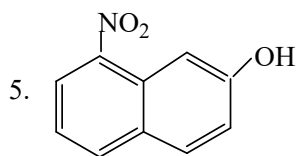
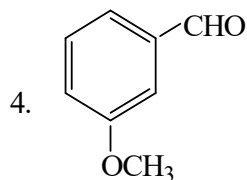
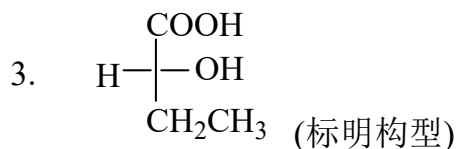
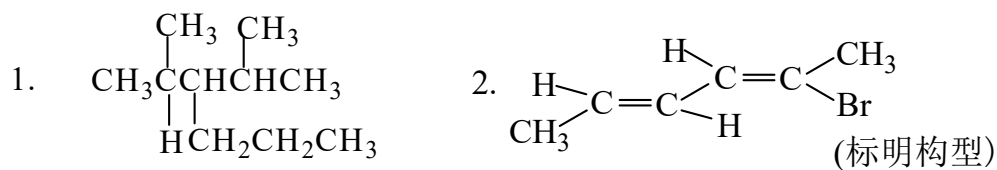


《有机化学》练习题 (1)

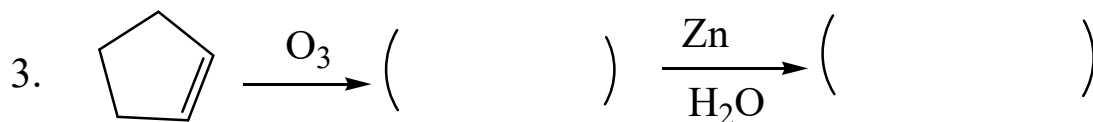
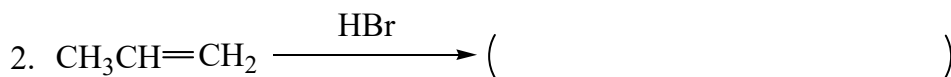
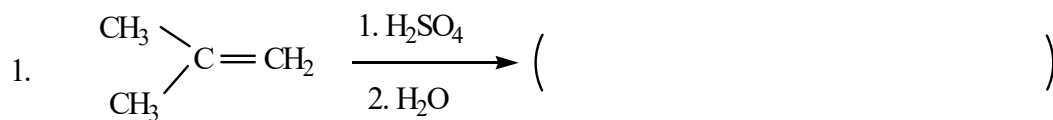
一、命名下列化合物

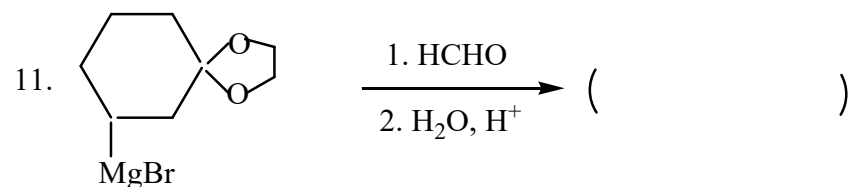
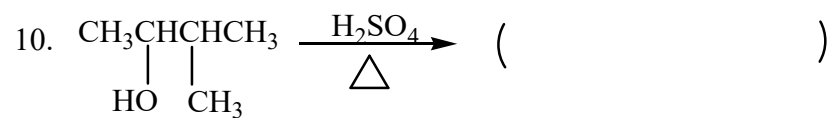
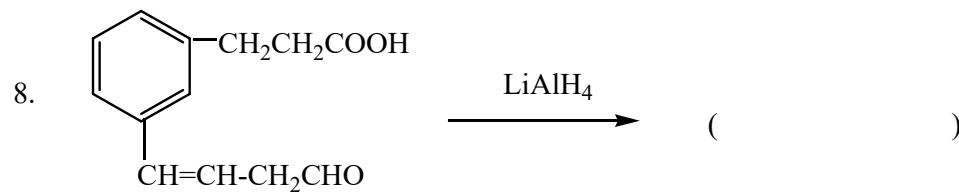
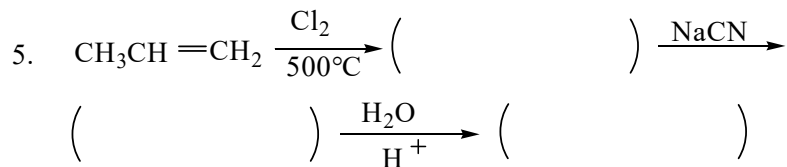
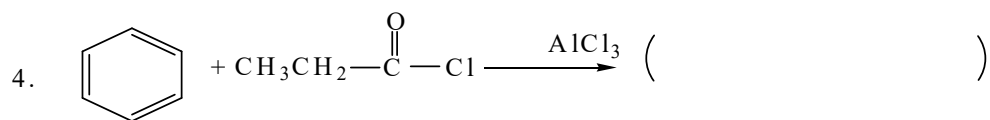


二、写出下列化合物的结构式

1. 烯丙基仲丁基醚 2. 顺-1-甲基-4-叔丁基环己烷的稳定构象式
3. 苊氯 4. 尿素 5. 4-甲基苯磺酰氯

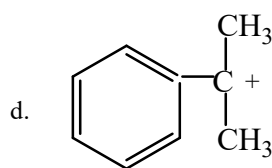
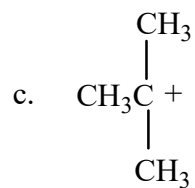
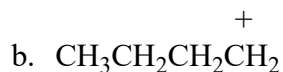
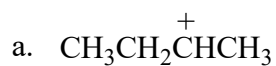
三、完成下列化学反应式



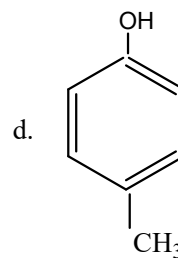
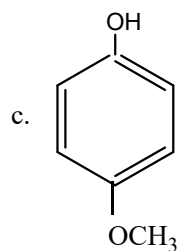
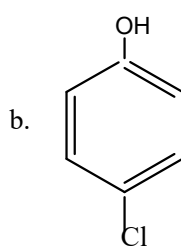
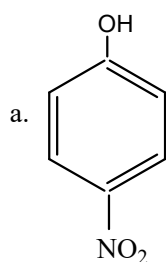


四、选择或比较题

1、下列碳正离子中，稳定性最大的是 ()



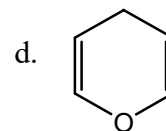
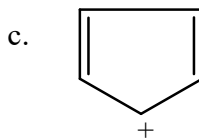
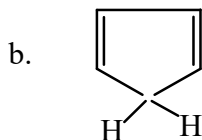
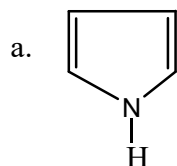
2、下列化合物中，酸性最强的是（ ）



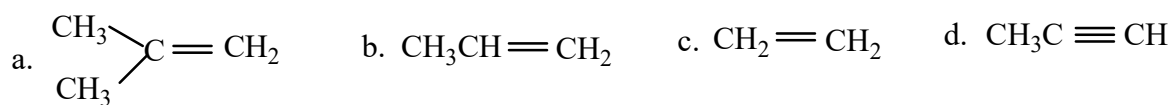
3、下列化合物中，碱性最强的是（ ）



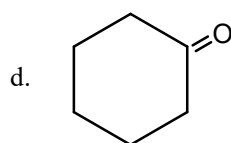
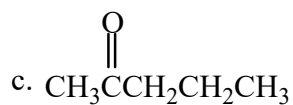
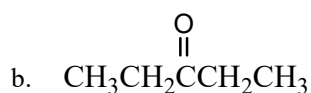
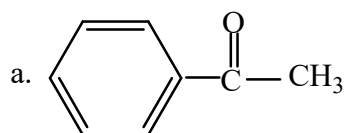
4、下列化合物或离子中，具有芳香性的是（ ）



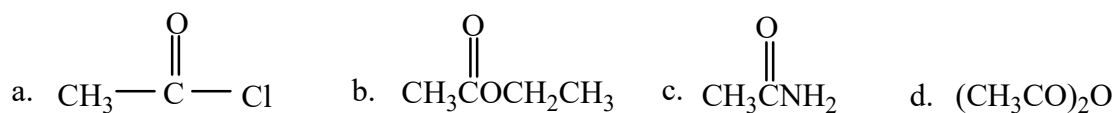
5、下列化合物发生亲电加成反应，速度最快的是（ ）



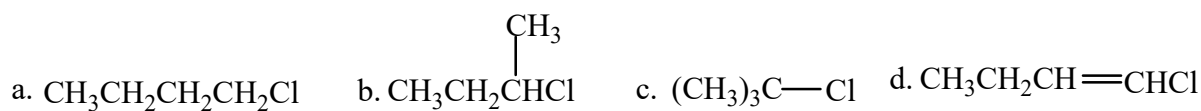
6、下列化合物中，既能发生碘仿反应又能与饱和的 NaHSO_3 溶液作用的是（ ）



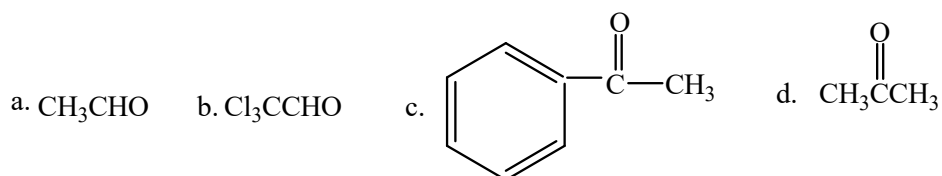
7、比较下列化合物发生水解或醇解反应的速度 ()



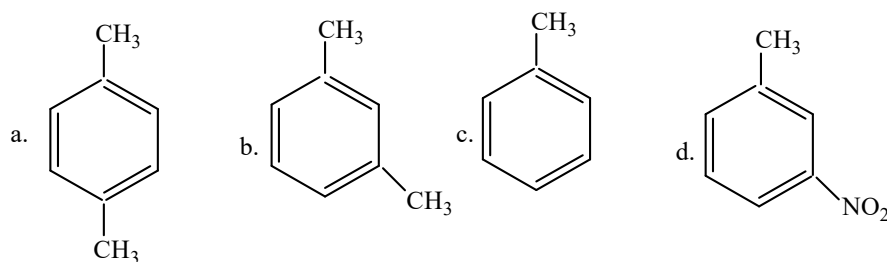
8、比较下列化合物按 $\text{S}_{\text{N}}1$ 历程进行水解反应的速度 ()



9、比较下列化合物发生亲核加成反应的速度 ()

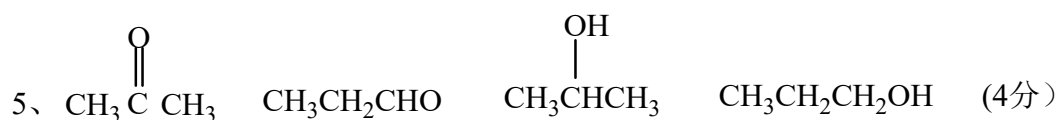
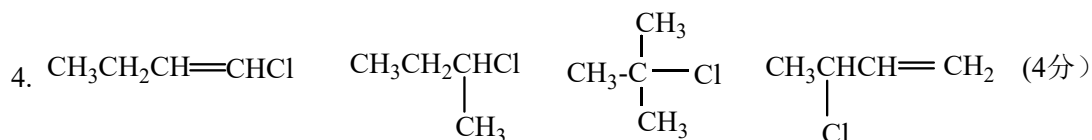
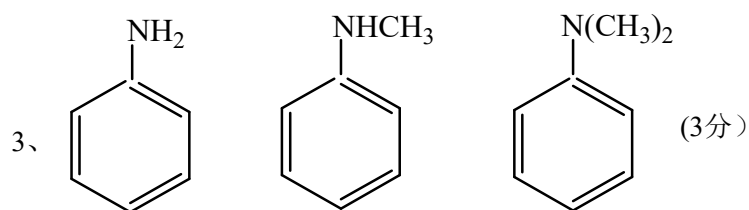


10、比较下列化合物进行卤代或硝化或磺化反应的速度 ()



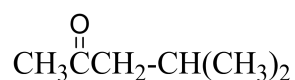
五、用化学方法鉴别下列各组化合物

1、D-甘露糖，D-果糖 (2分) 2、甲酸，乙酸 (2分)



六、用指定原料合成下列化合物 (无机试剂、催化剂、有机溶剂任选)

1、由乙酰乙酸乙酯和丙烯为原料合成



2、由乙烯为原料合成正丁醇 ($\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$)



七、推断结构式

1、某化合物的分子式为 $\text{C}_6\text{H}_{12}\text{O}$,能与羟胺作用生成肟,但不能起银镜反应。催化加氢则得到醇,此醇经脱水、臭氧化还原水解后得到两种液体,其中之一能起银镜反应,但不起碘仿反应;另一种有碘仿反应,但不能还原 Fehling 试剂。试推导该化合物的结构式并写出反应式。

2、某化合物 A 的分子式为 $\text{C}_7\text{H}_8\text{O}$,不溶于 NaOH 水溶液,与金属 Na 不发生反应,但能与浓的 HI 反应生成两个化合物 B 和 C。B 与 FeCl_3 溶液发生显色反应,也能溶于 NaOH 溶液;C 与 AgNO_3 的乙醇溶液作用,生成黄色的 AgI 。试推导 A,B,C 的可能结构式并写出各步反应式。