

四川大学

2005 年攻读硕士学位研究生入学考试试题

考试科目: 有机化学(药学)

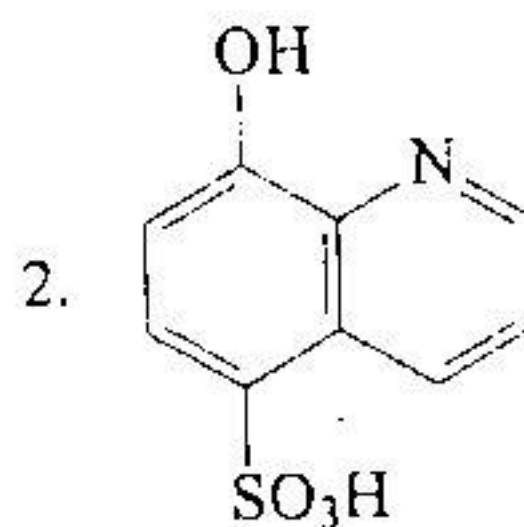
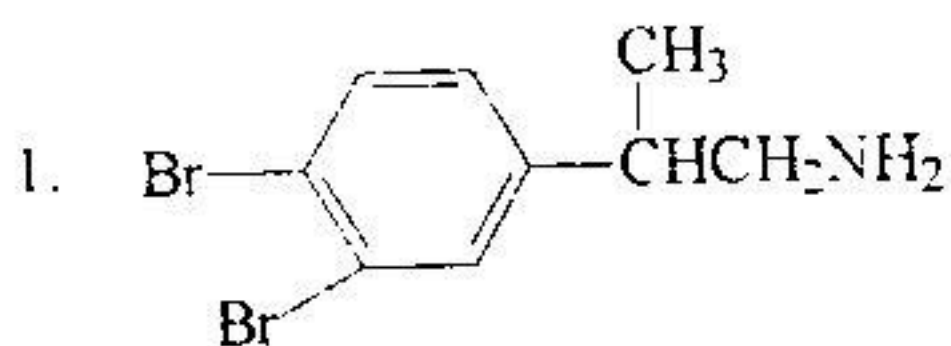
科目代码: 813

适用专业: 法医学、药物化学、微生物与生化药学

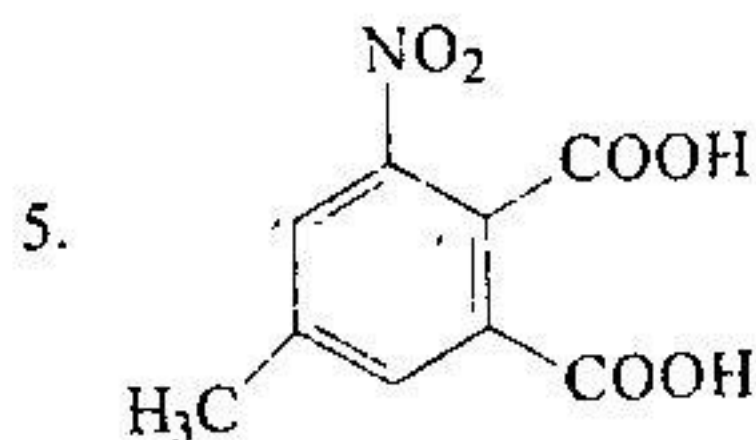
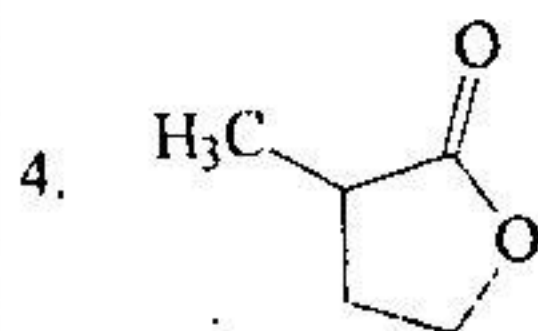
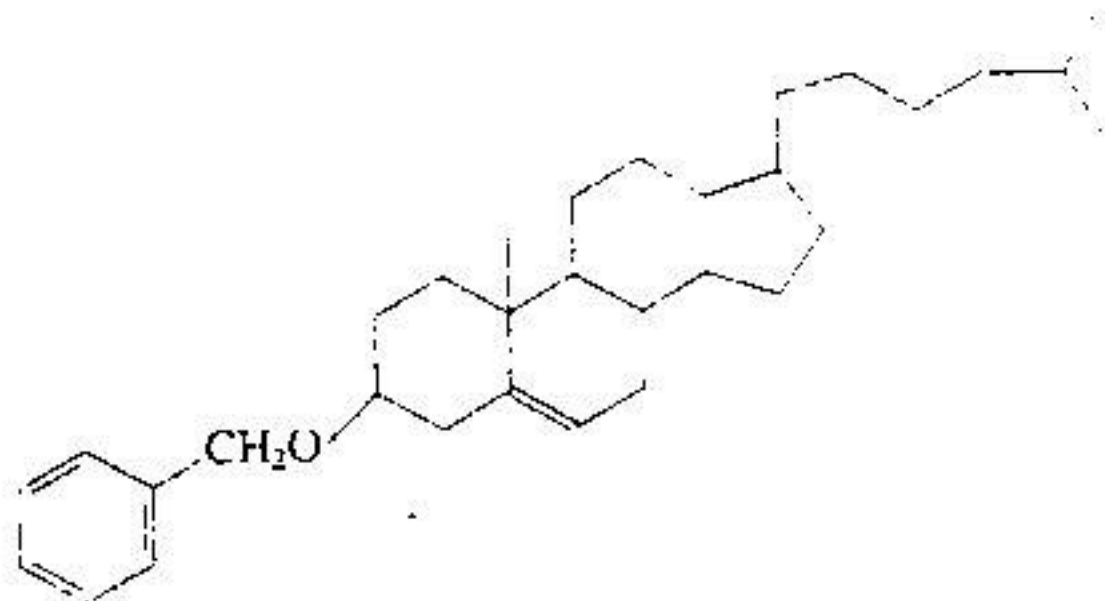
(试题共 6 页)

(答案必须写在答题纸上, 答在试题上不给分)

一、命名下列化合物 (15 分)

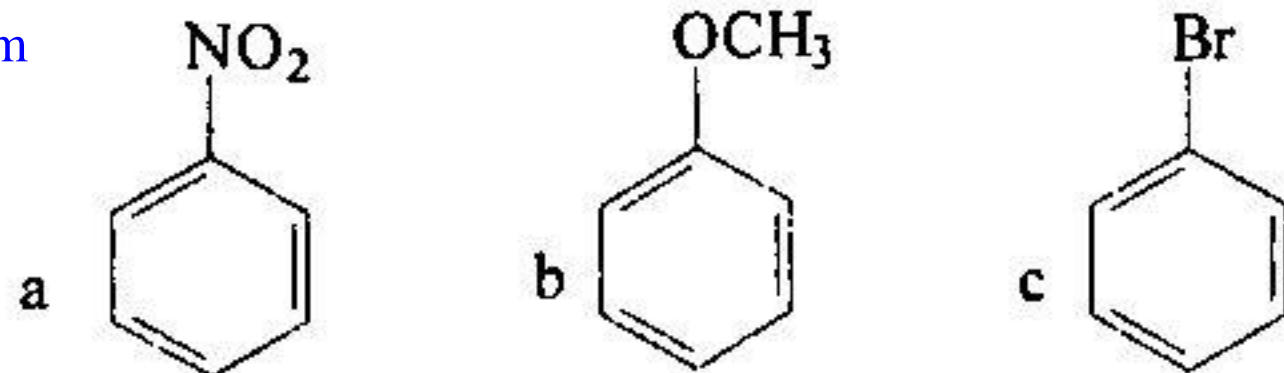


3.

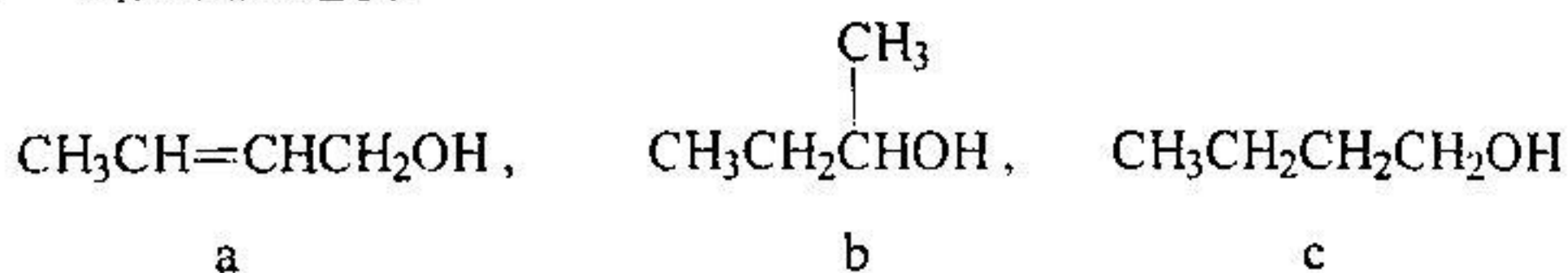


二、根据题意, 按由强到弱或由大到小或由易到难排序 (30 分)

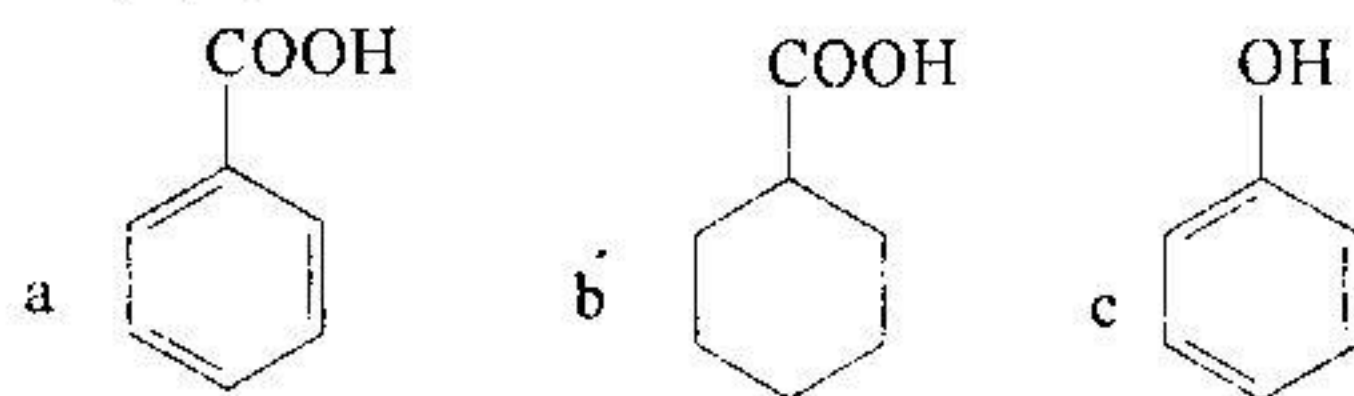
1. 亲电取代活性:



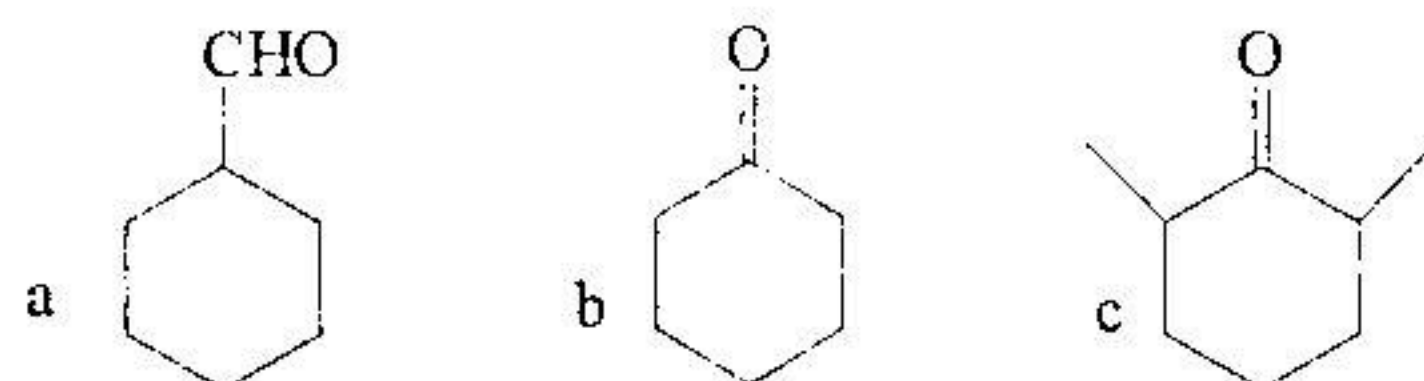
2. S_N1 反应速度:



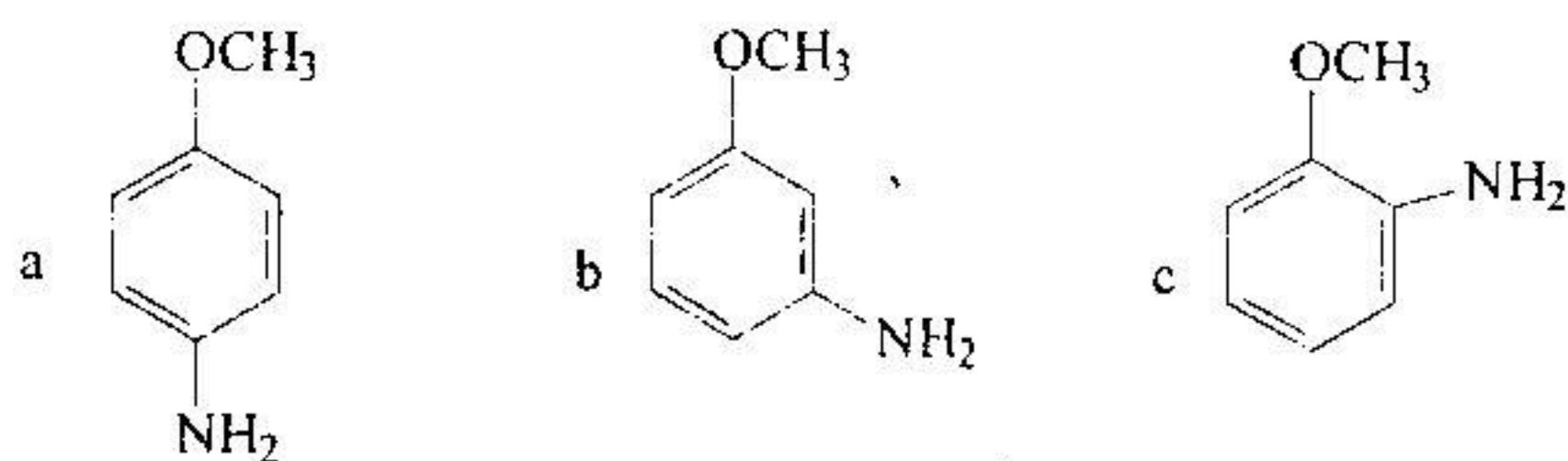
3. 酸性大小:



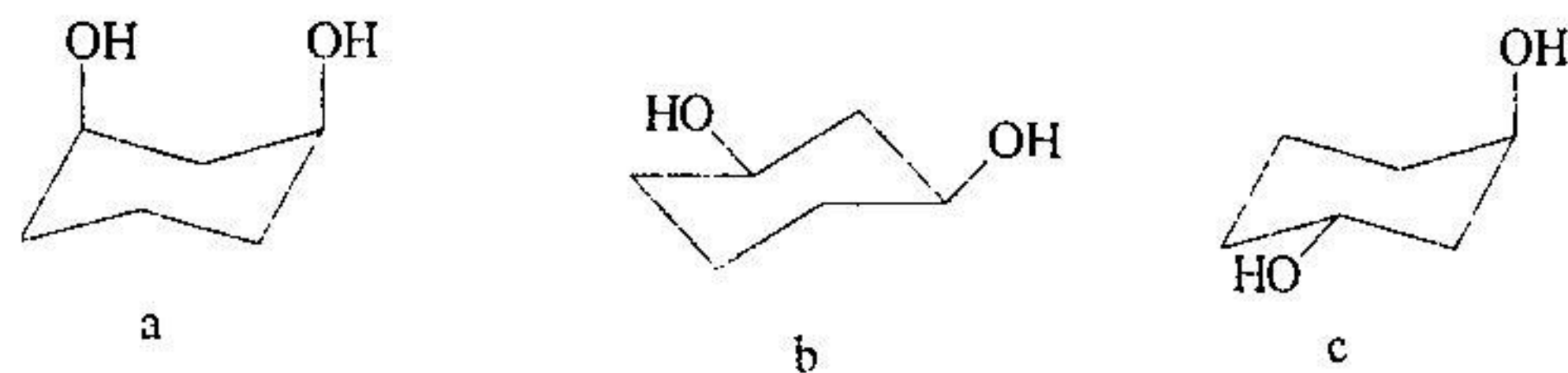
4. 亲核加成活性:



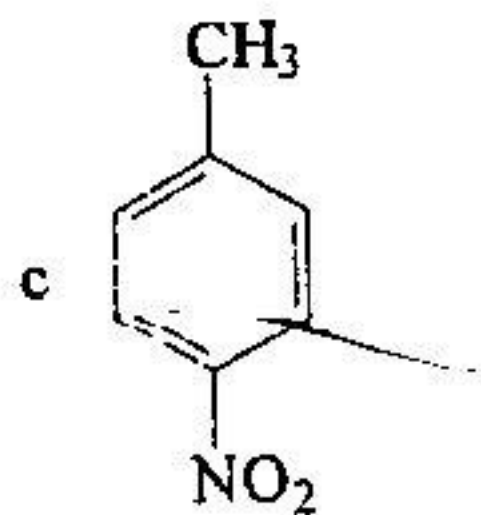
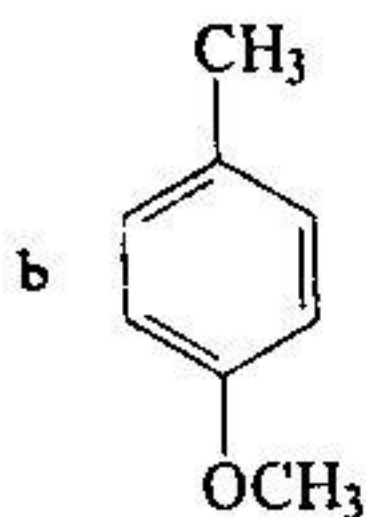
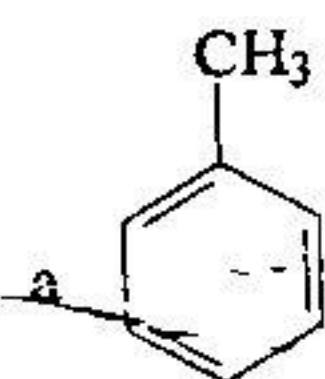
5. 碱性大小:



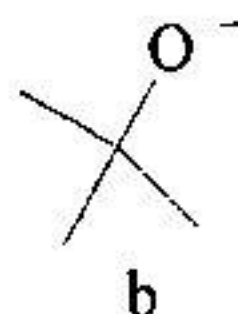
6. 构象稳定性大小:



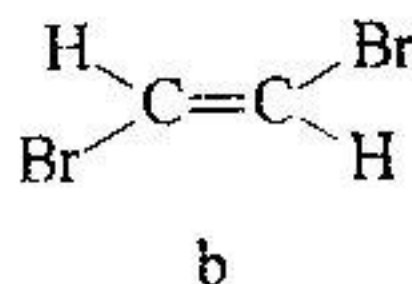
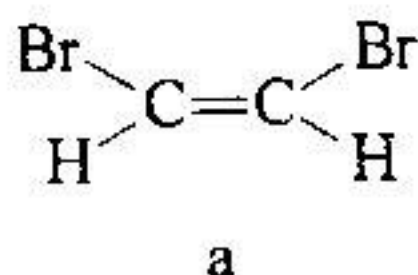
7. 分子被氧化难易:



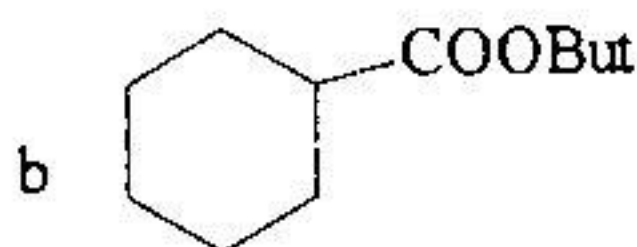
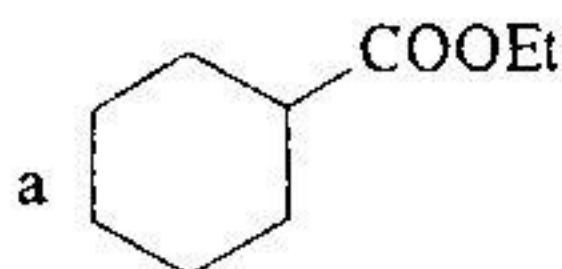
8. 亲核性大小:



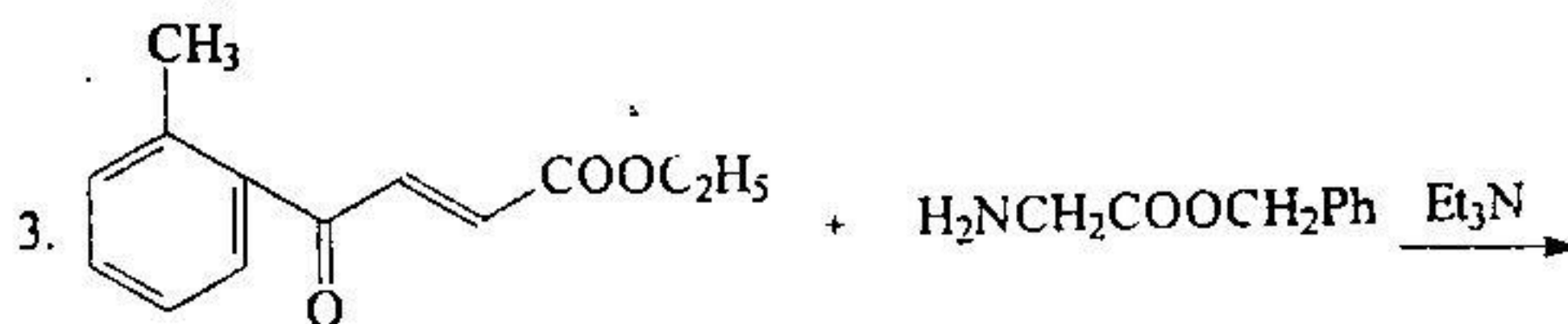
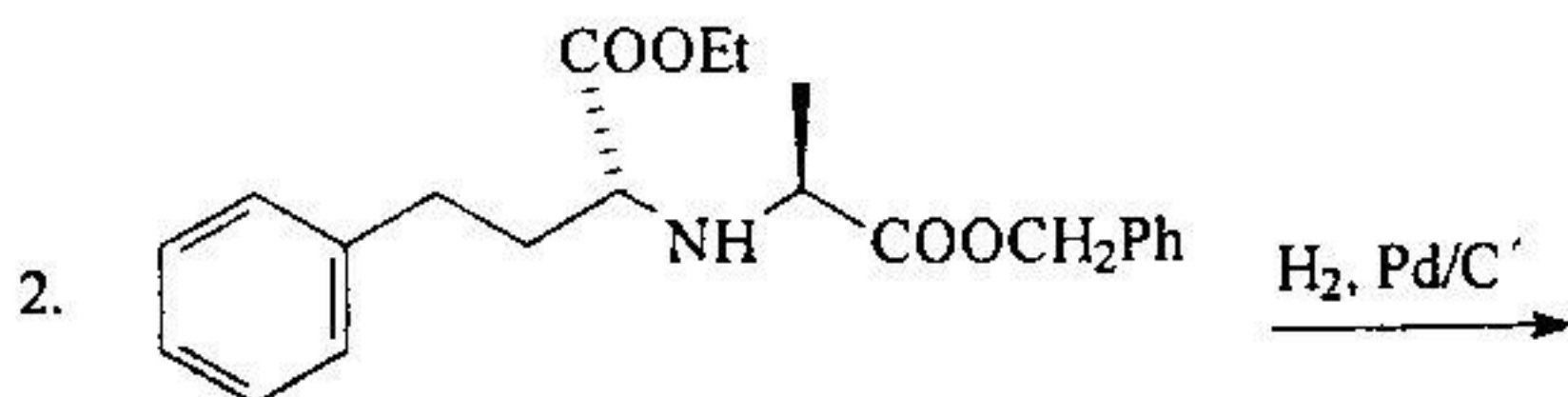
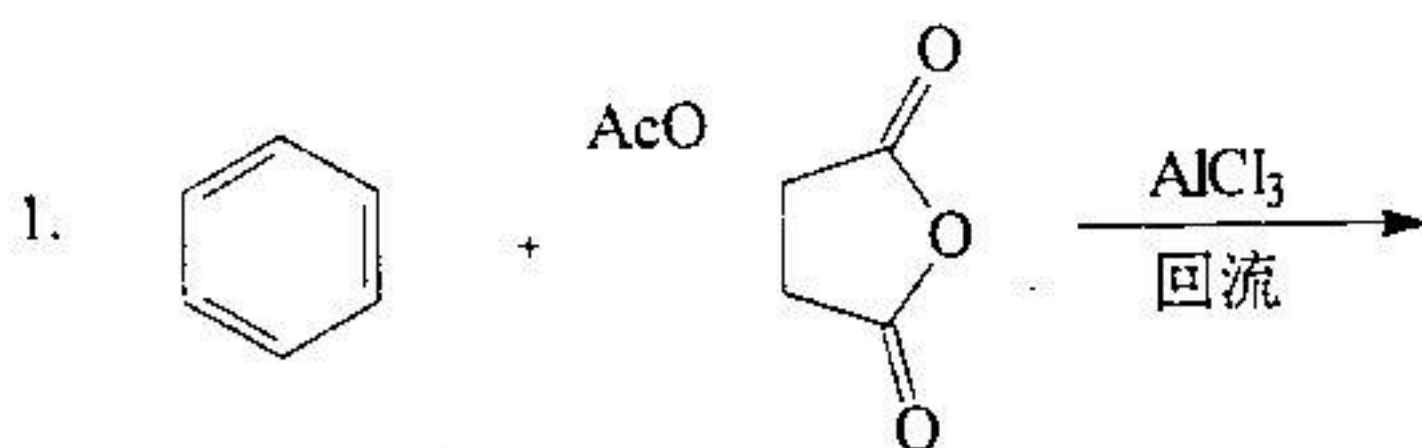
9. 分子偶极矩大小:

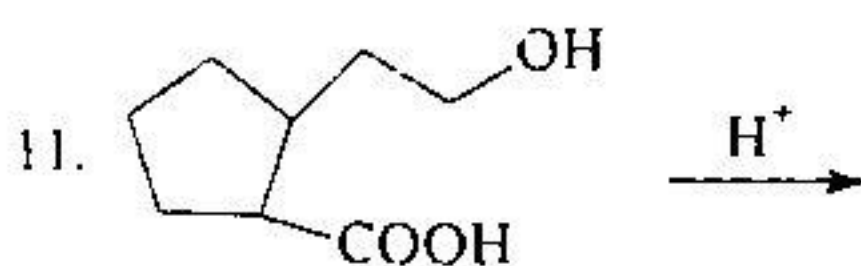
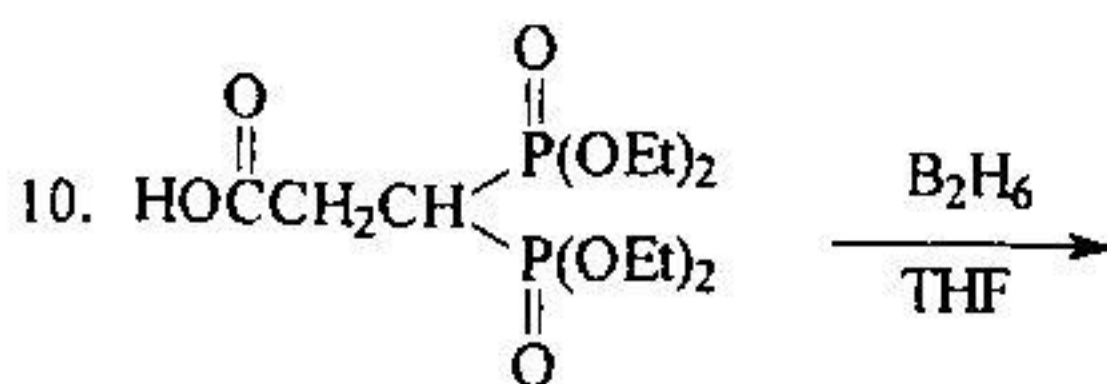
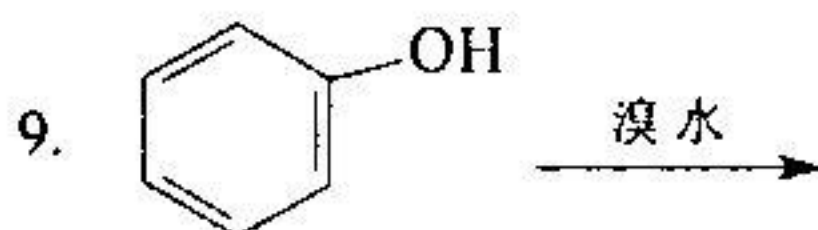
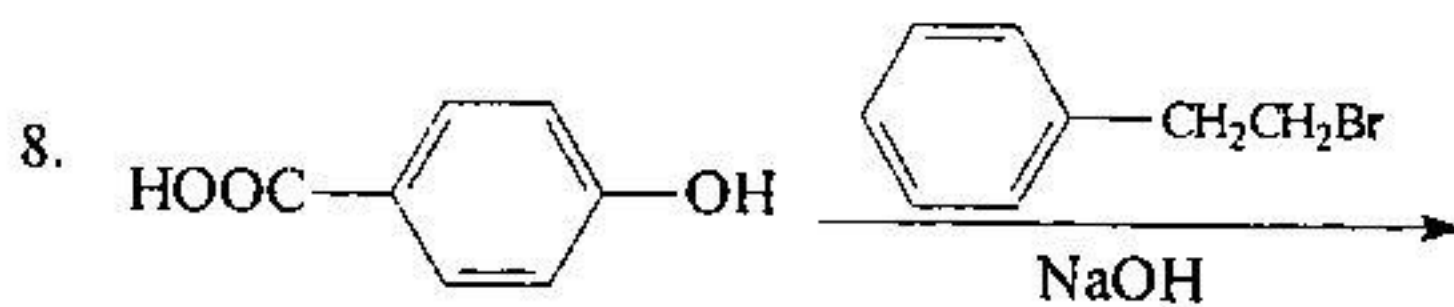
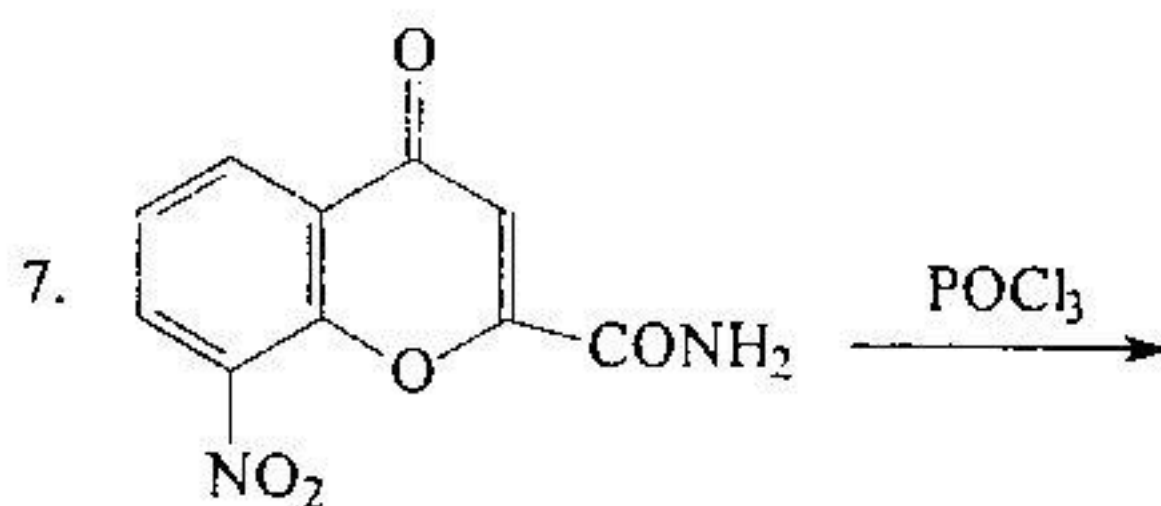
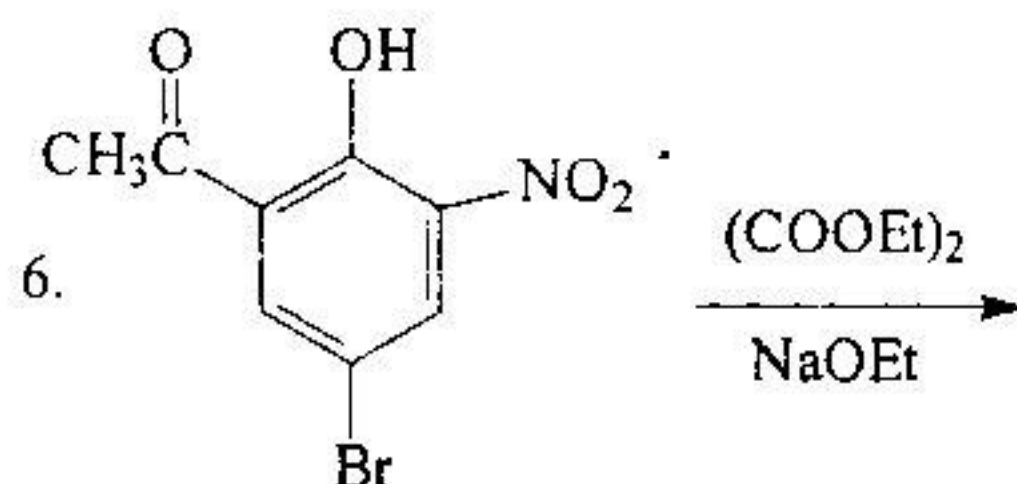
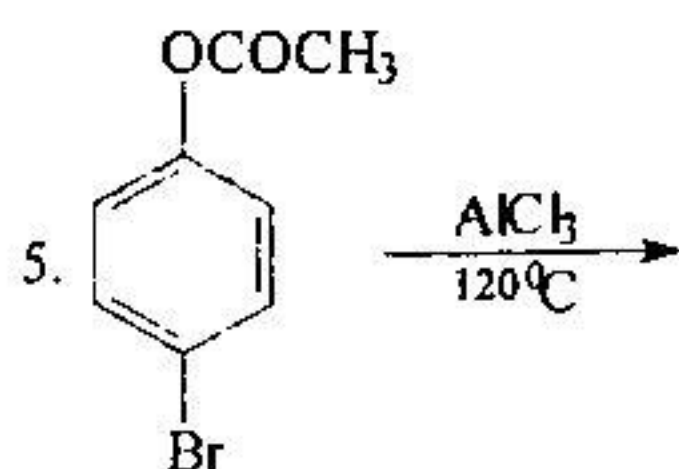
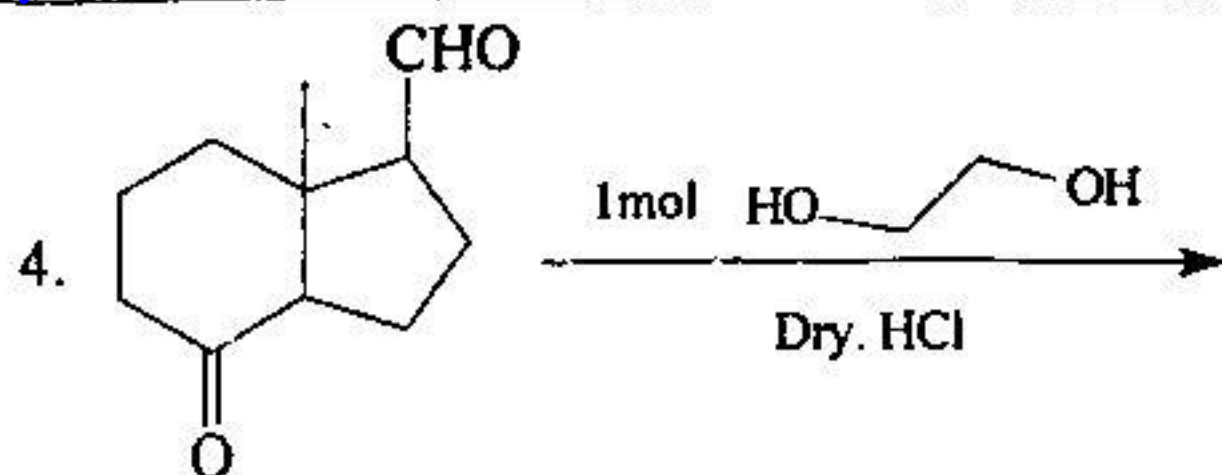


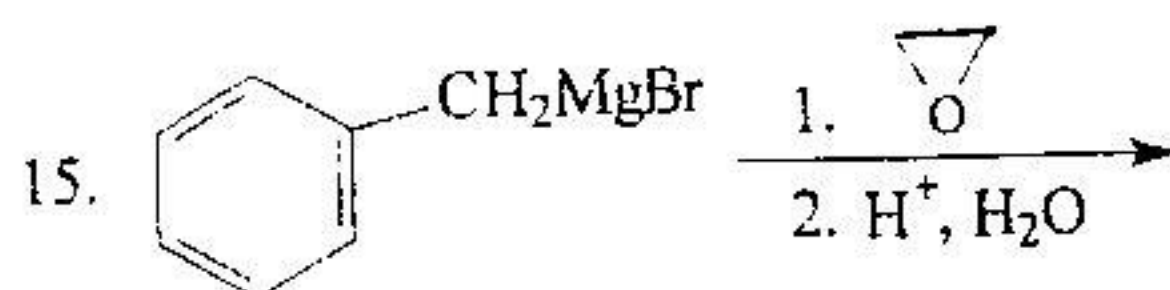
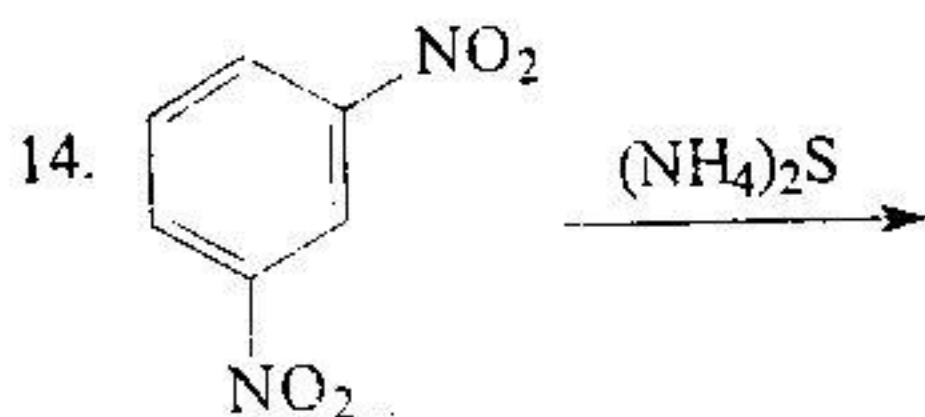
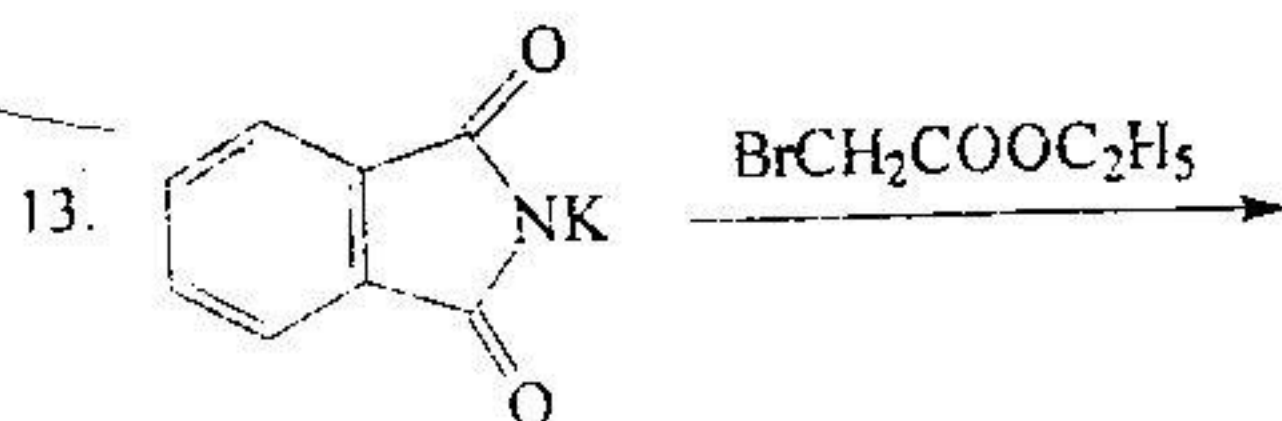
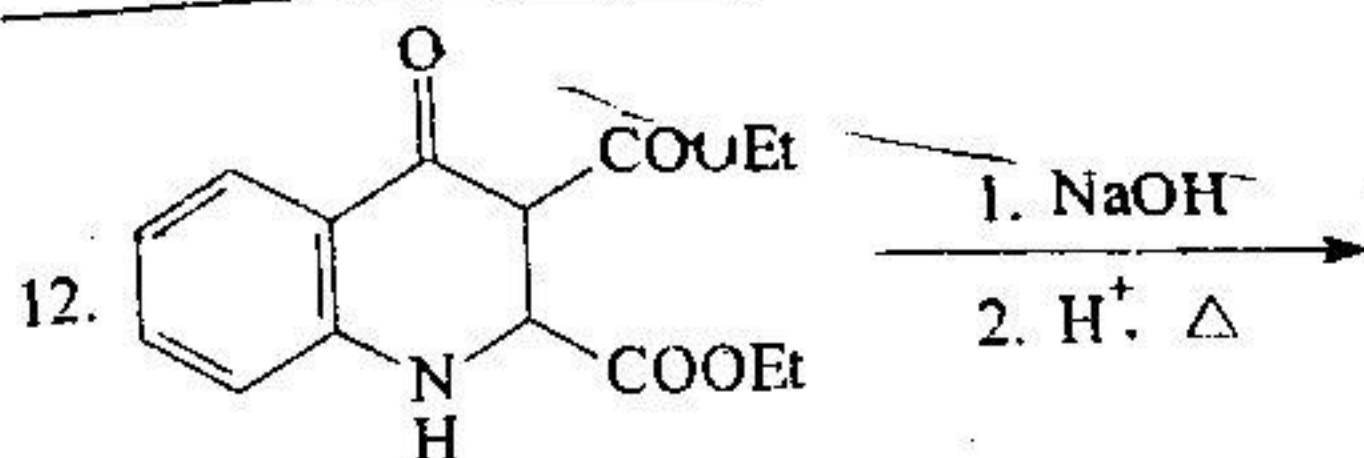
10. 碱水解速度快慢:



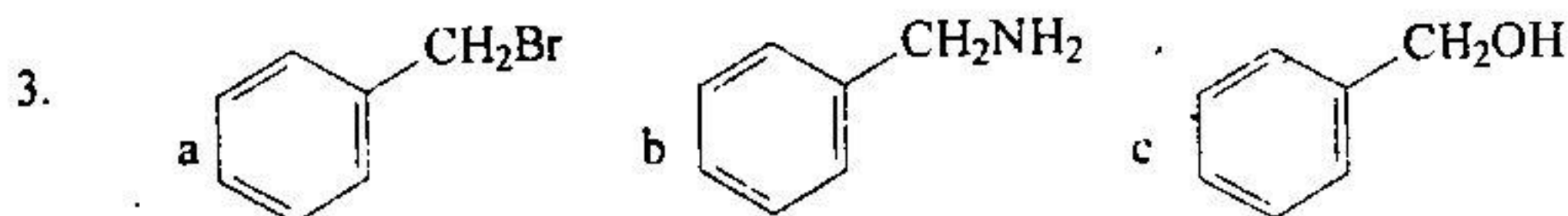
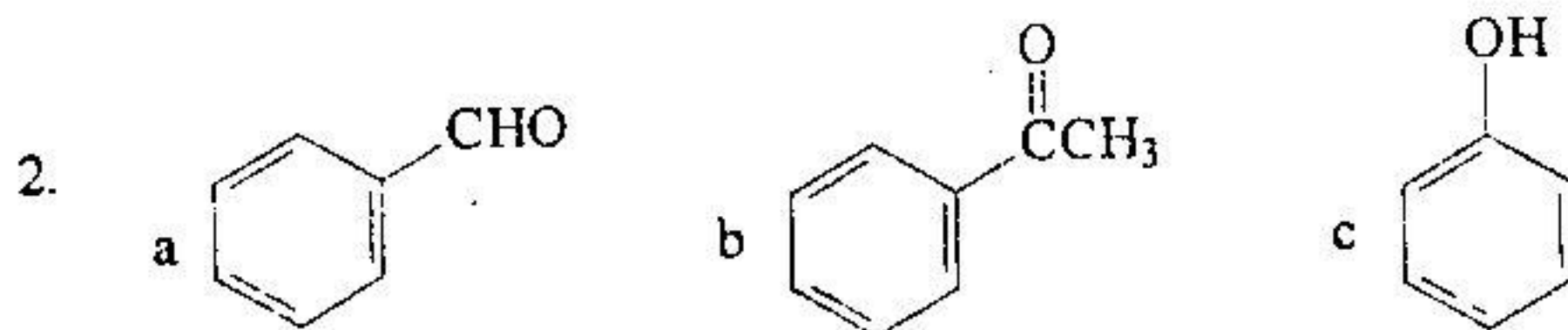
三、完成下列反应 (30 分)





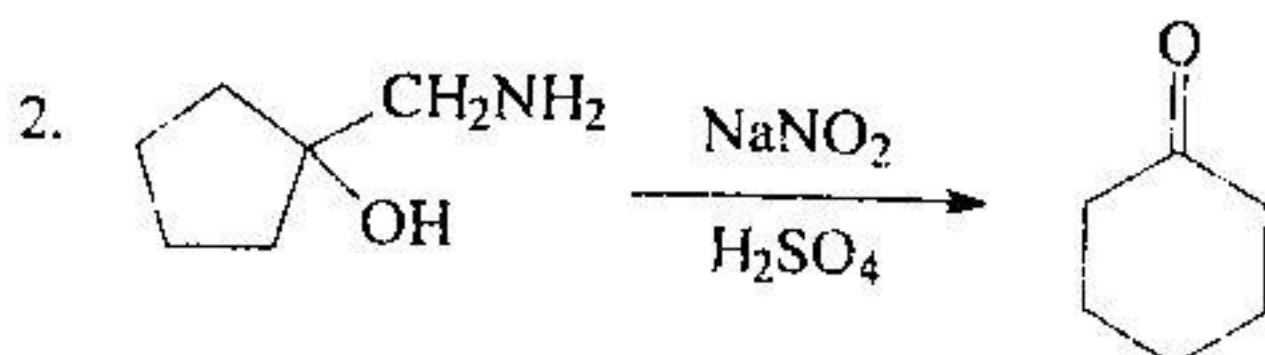
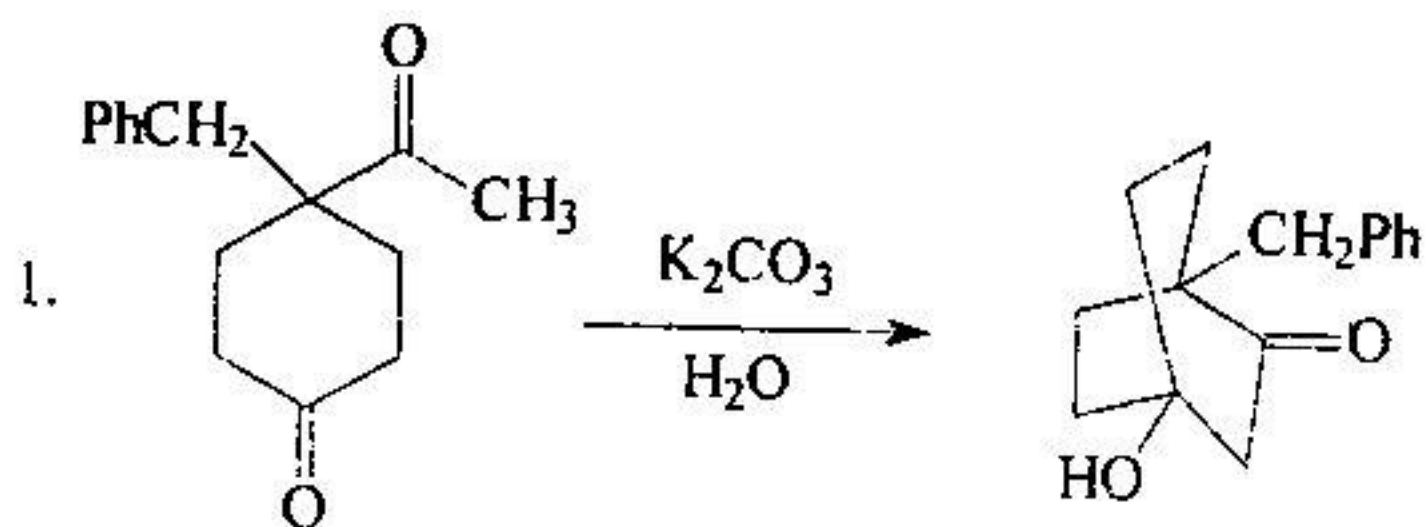


四、用简单化学方法鉴别下列各组化合物 (20 分)



4. a, D-葡萄糖, b, D-果糖

五、 用方程式表示下列转化的机理 (20 分)



六、 由指定原料完成下列转化，其它试剂任选 (35 分)

