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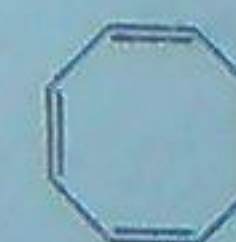
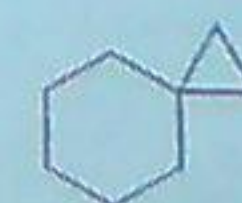
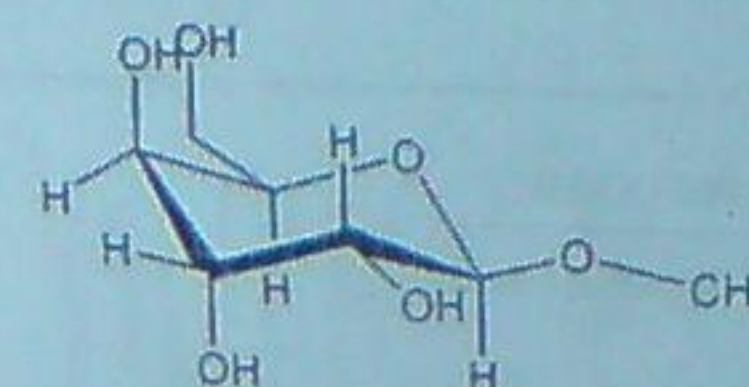
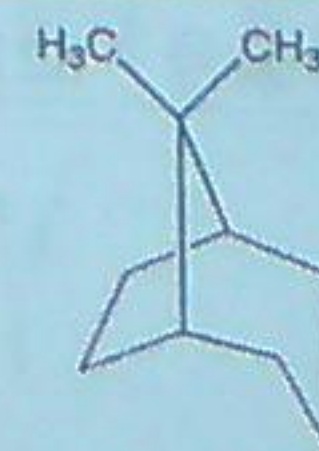
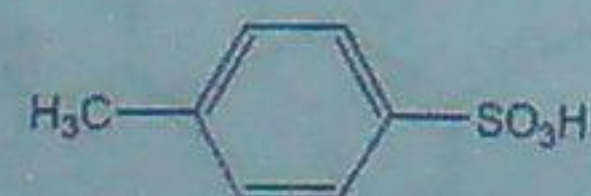
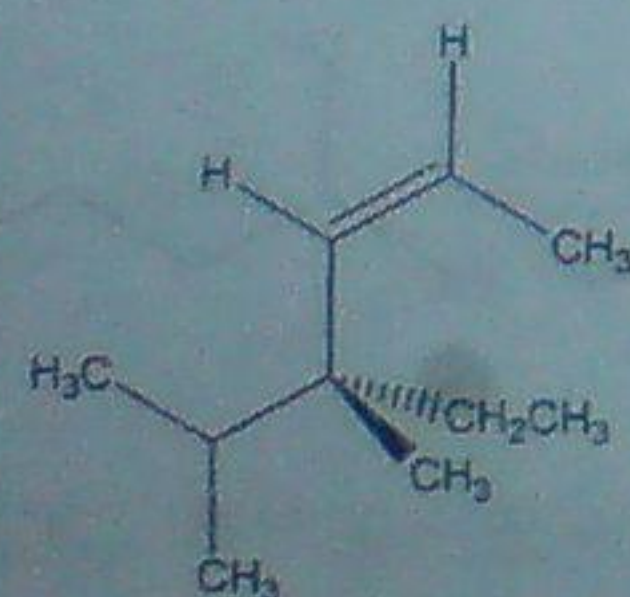
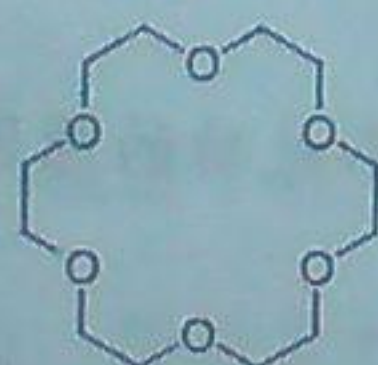
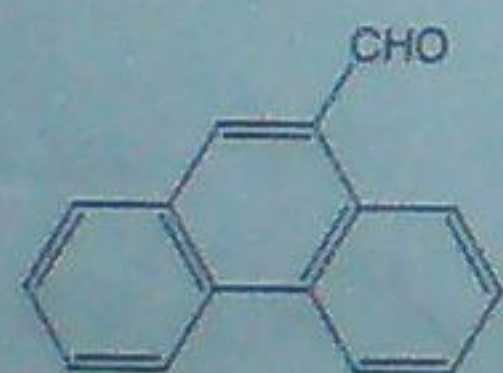
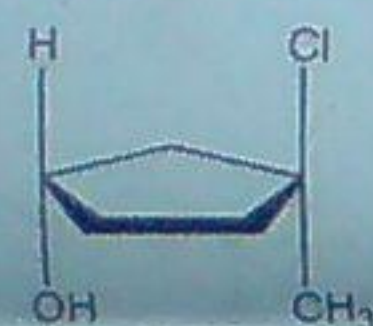
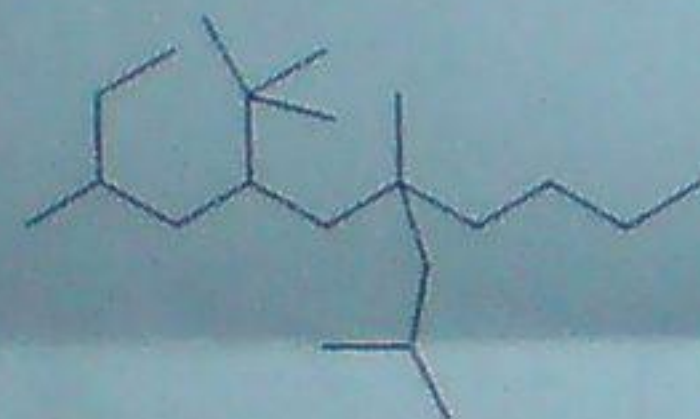
## 浙 江 大 学

二〇〇八年攻读硕士学位研究生入学考试试题

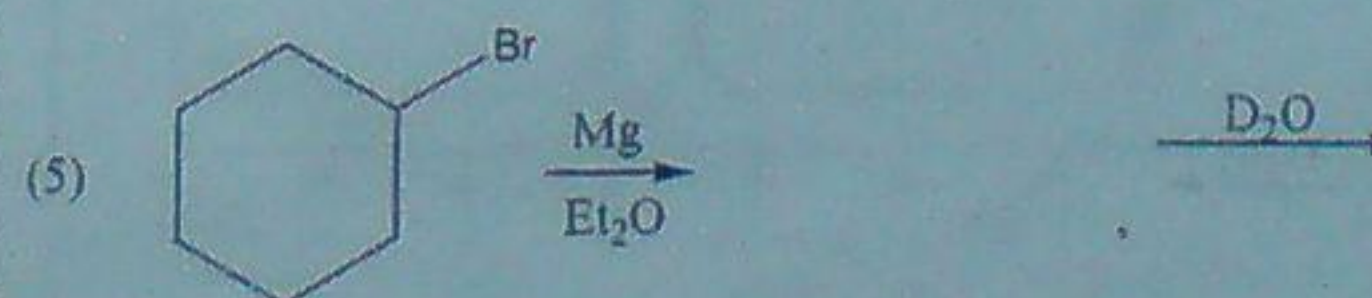
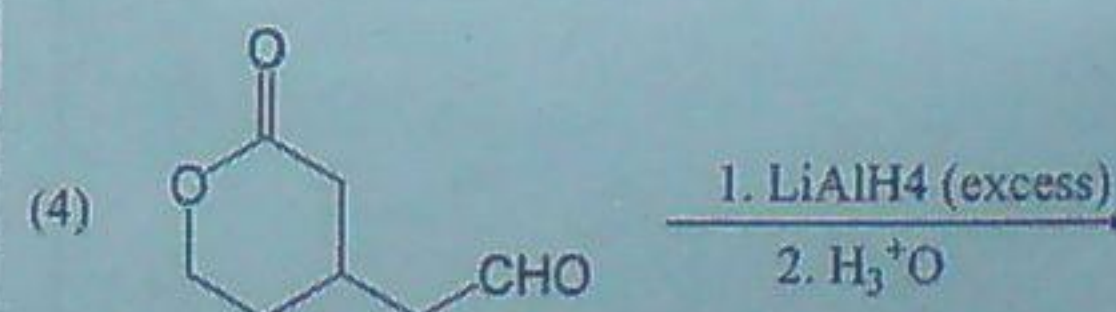
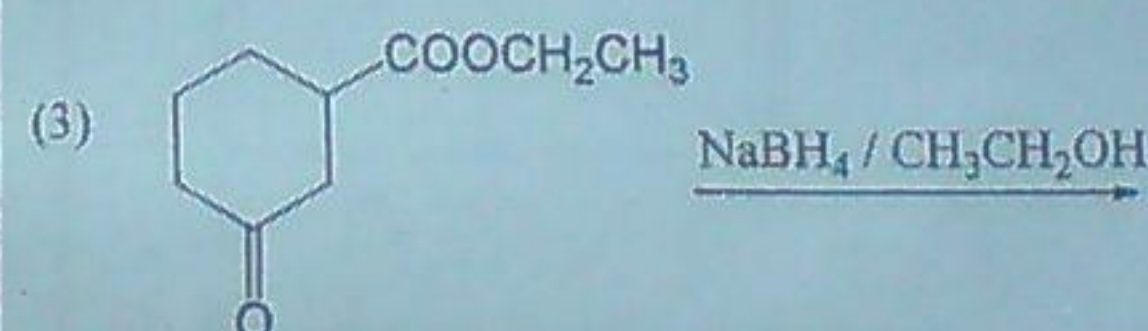
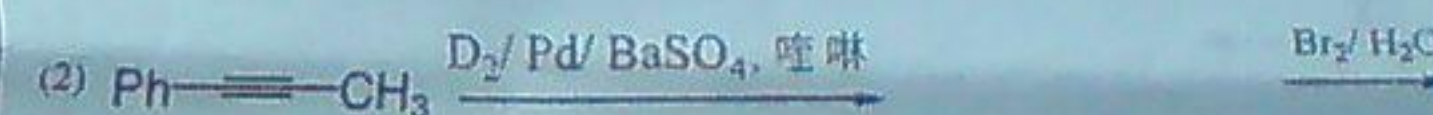
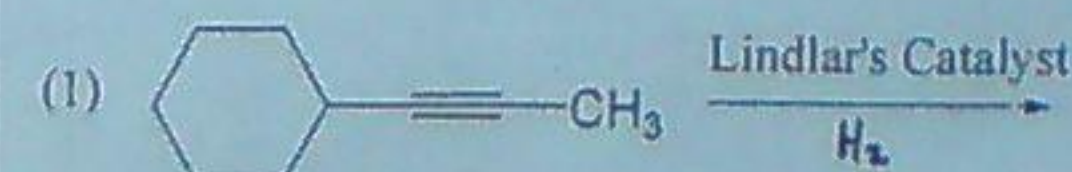
考试科目 有机化学 编号 821

注意：答案必须写在答题纸上，写在试卷或草稿纸上均无效。

一、命名下列化合物（10分，有立体化学请注明）

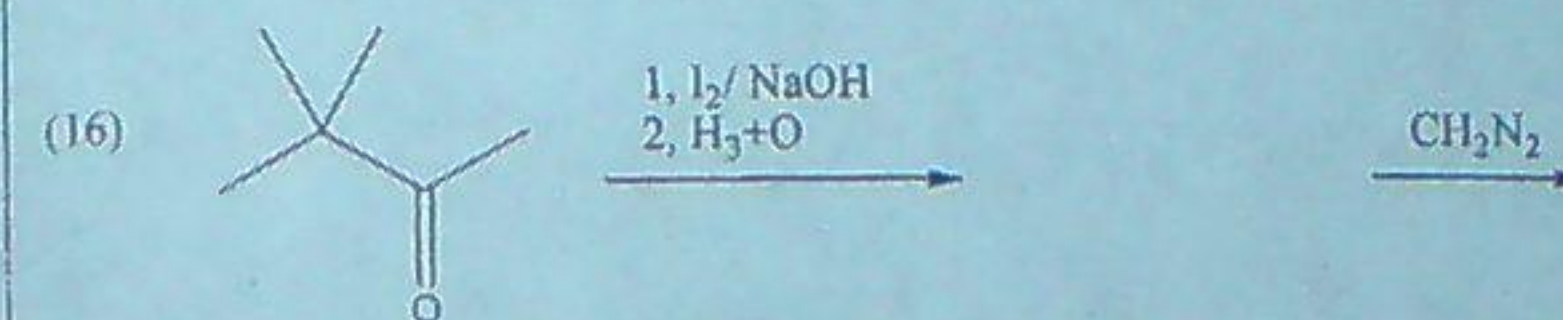
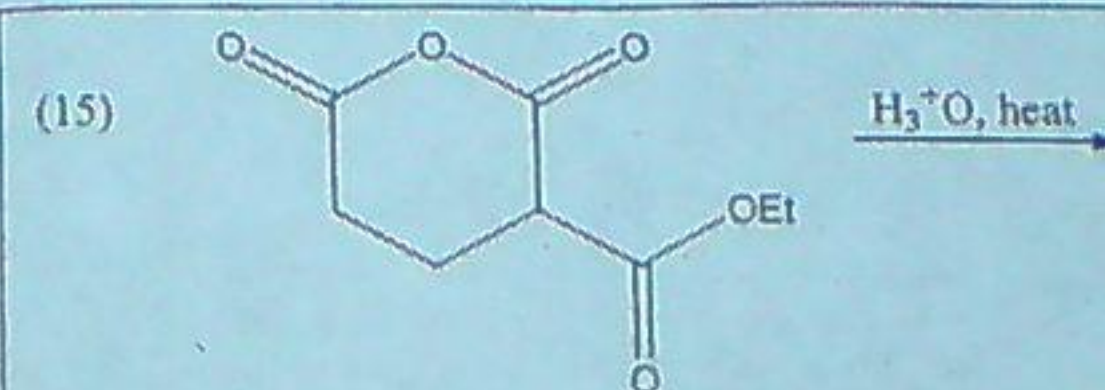
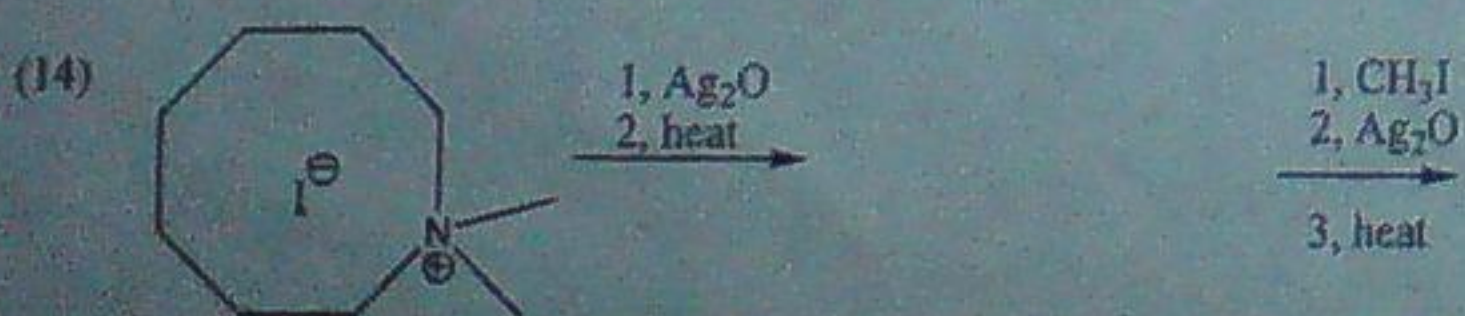
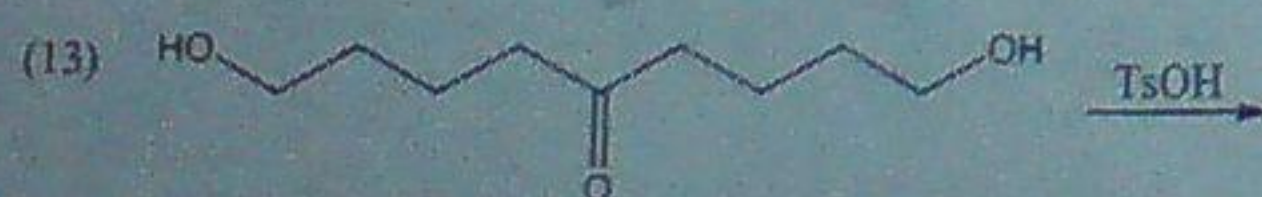
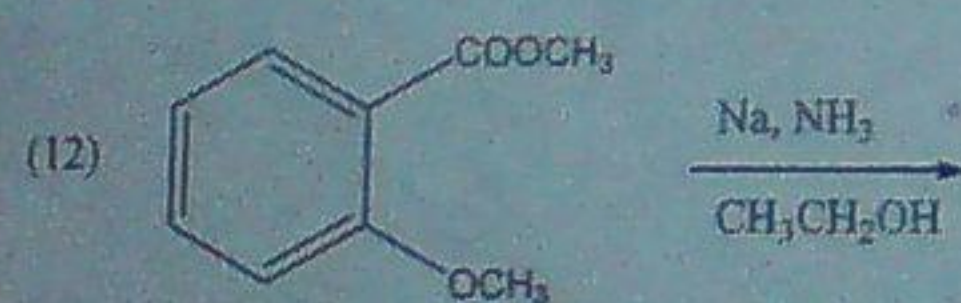
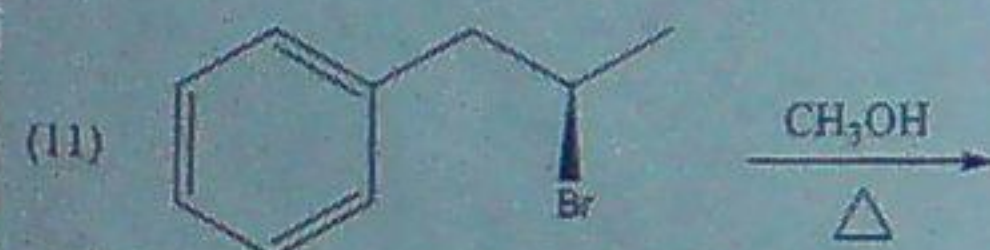
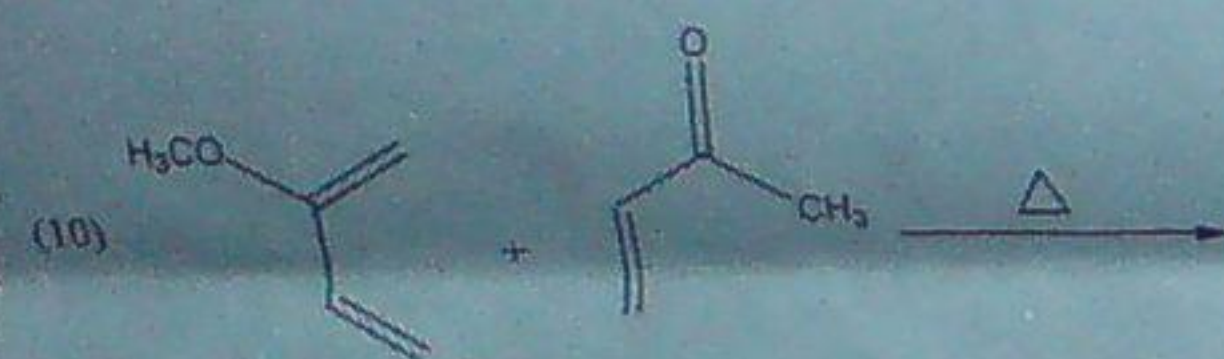
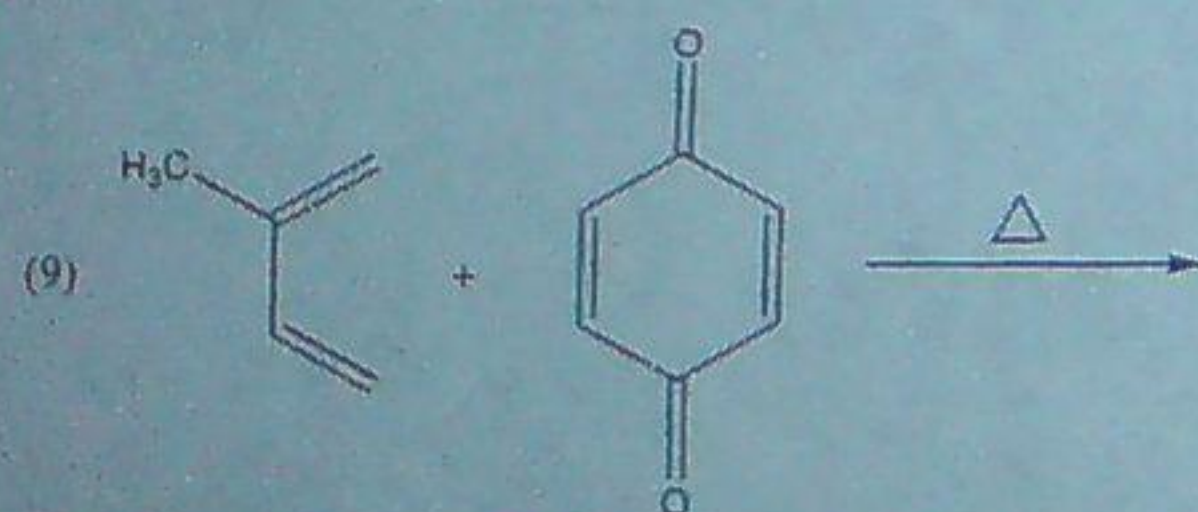
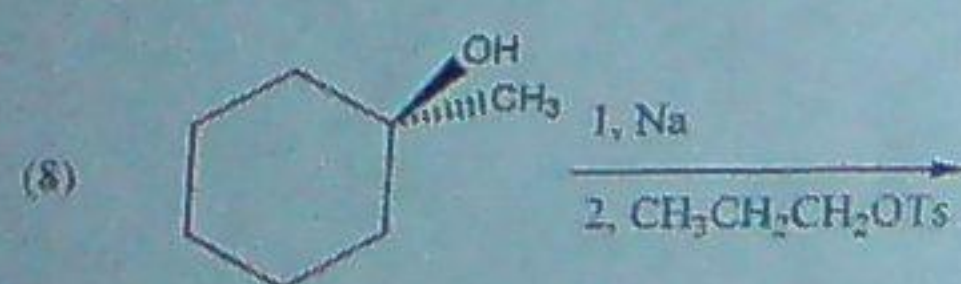
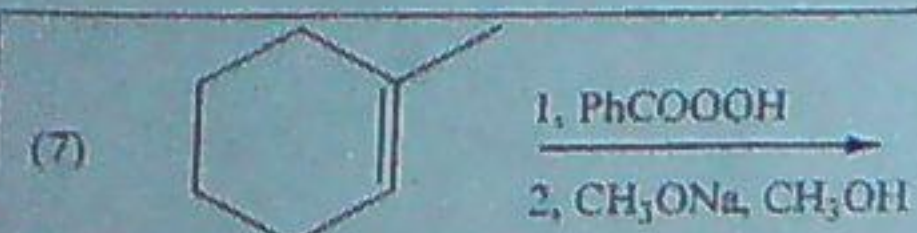


二、完成反应方程式（40分，有立体化学请注明）：

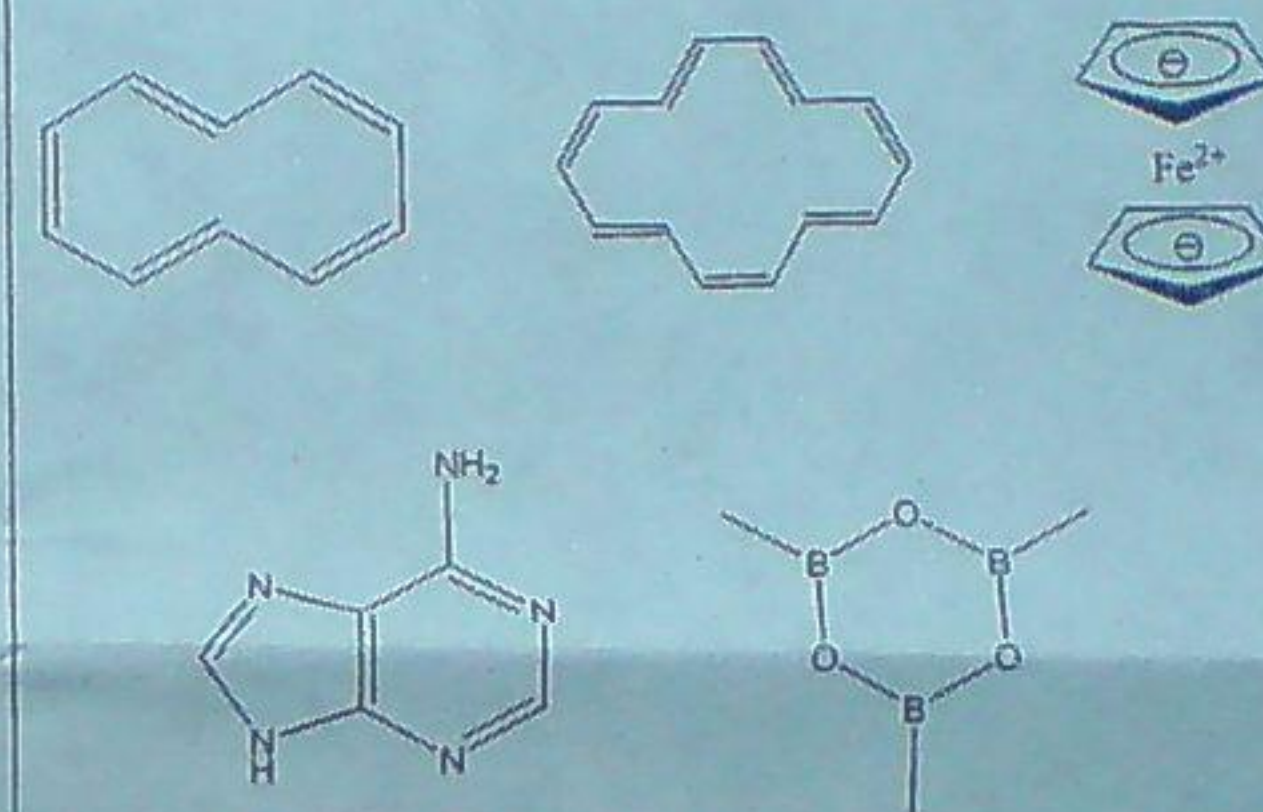




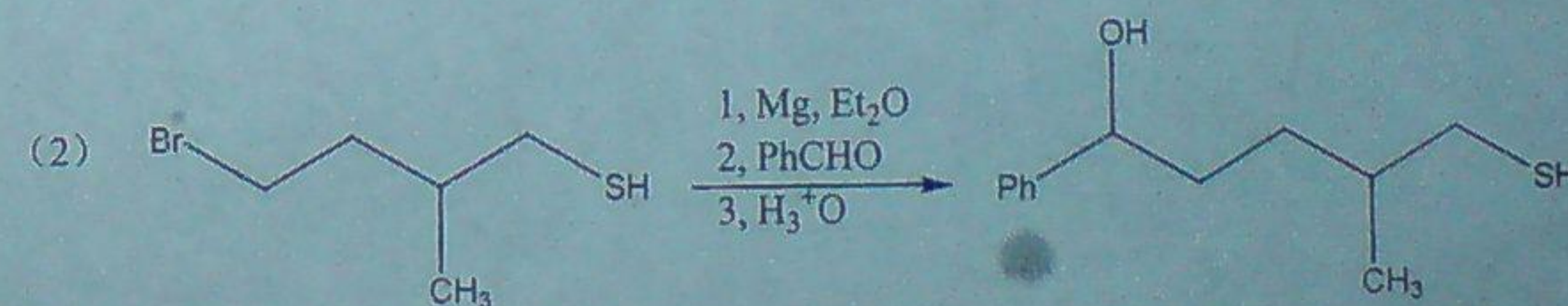
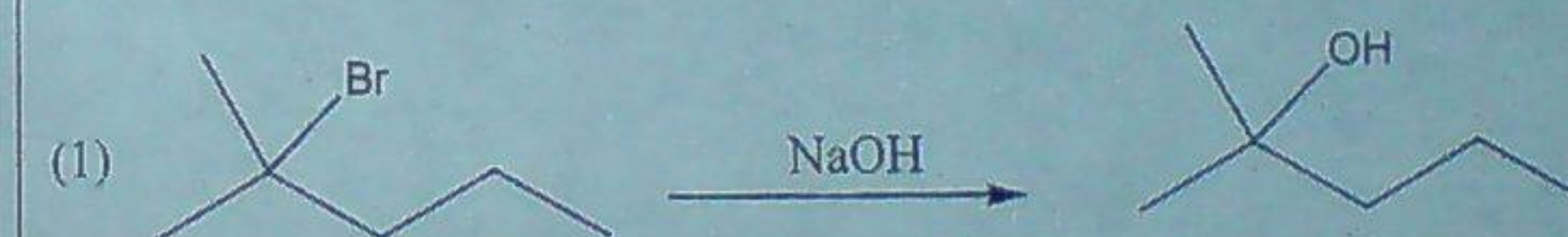
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三、哪些化合物具有芳香性 (10 分):

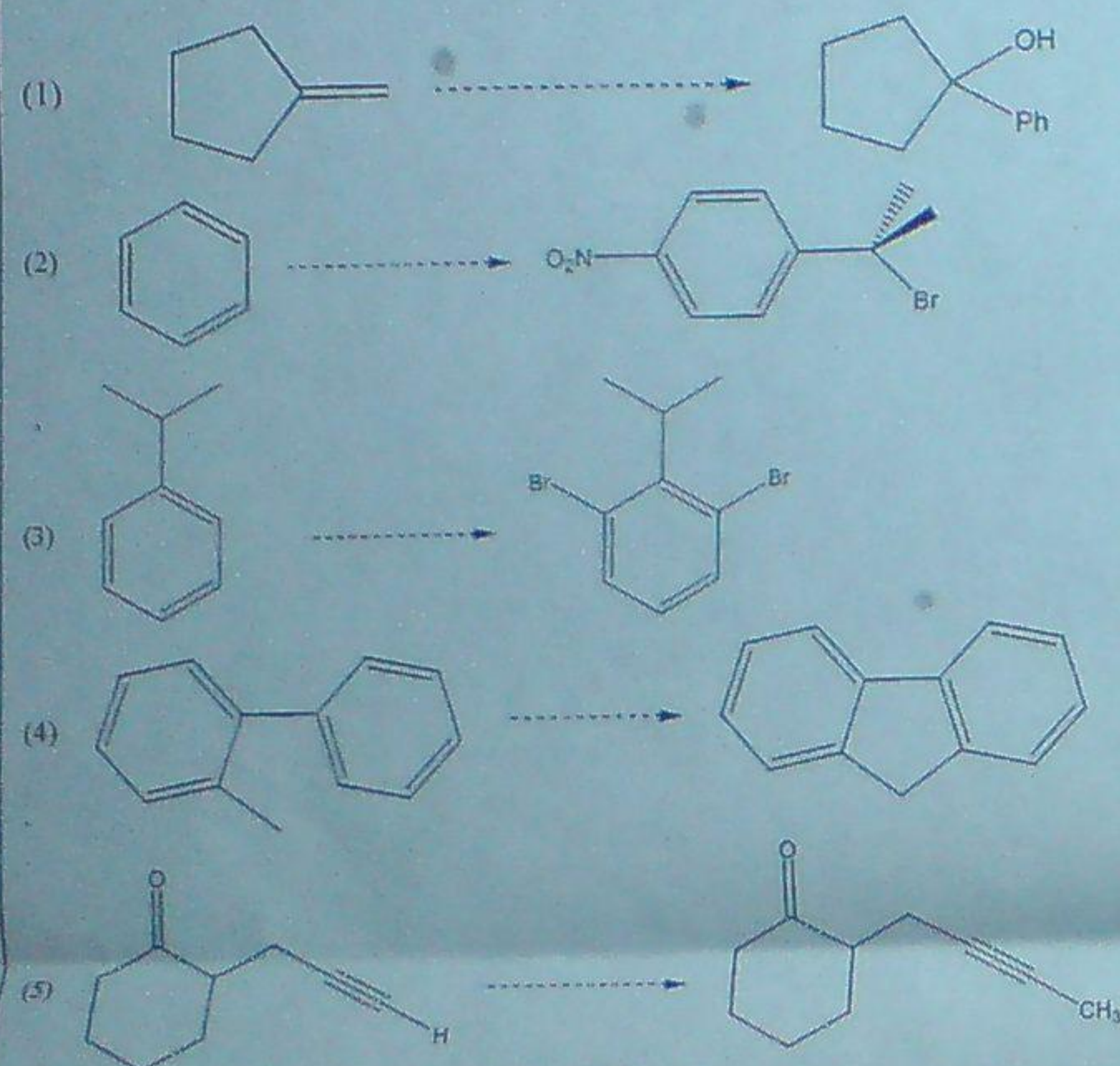


四、解释下列转化不成功的原因 (10 分):

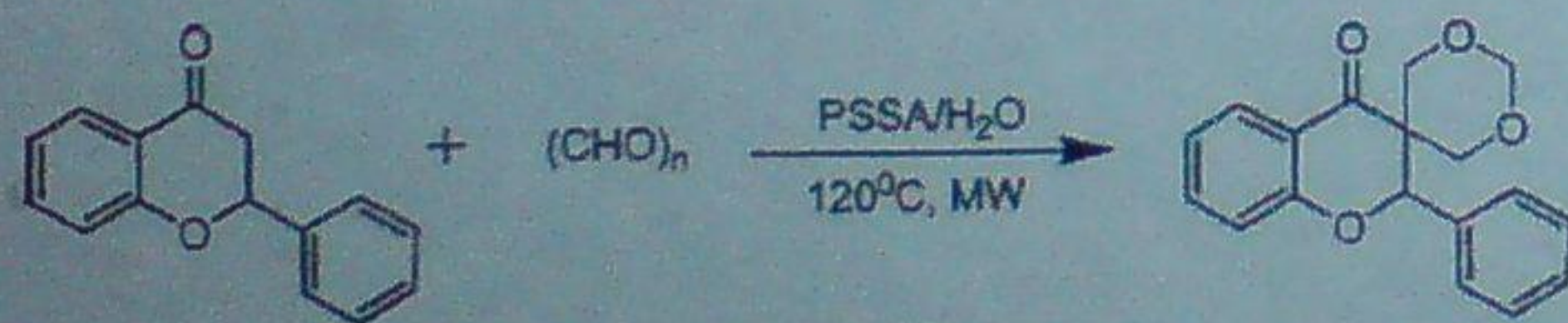




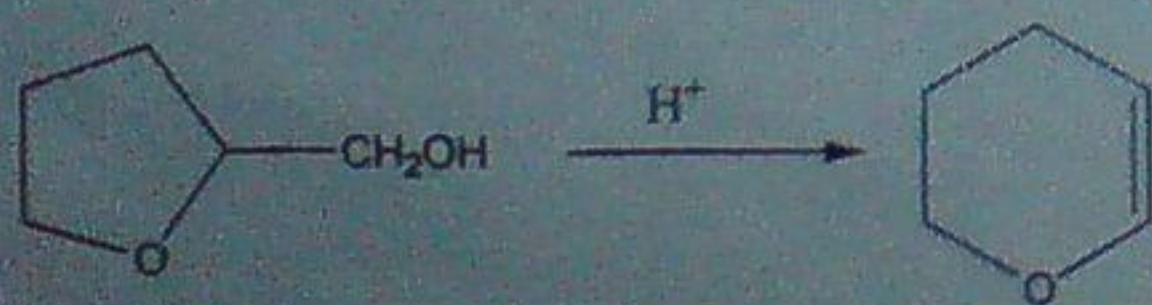
## 五、实现下列转化 (40 分):



六、J. Org. Chem., 2007, 72, 7420-7422 报道了在聚磺酸基苯乙烯 (PSSA) 催化下, 用微波 (MW) 的 Bis-Aldol 反应, 得到高产率 1,3-二氧六环 (方程式如下), 写出合理的反应机理 (20 分)。



七、提出酸催化下, 羟甲基四氢呋喃转化成二氢吡喃的机理 (10 分)。



## 八、根据下列图谱, 提出合理的结构 (10 分):

