

# 兰州大学 2004 年招收攻读硕士学位研究生考试试题答案

注意：答案请一律写在答题纸上，写在试题上无效。

招生专业：有机化学

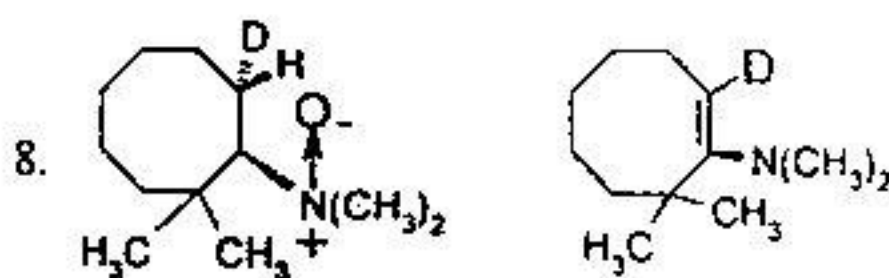
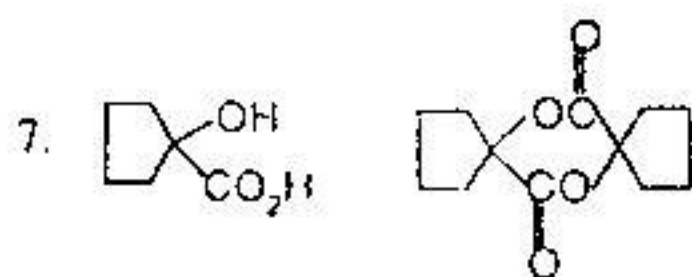
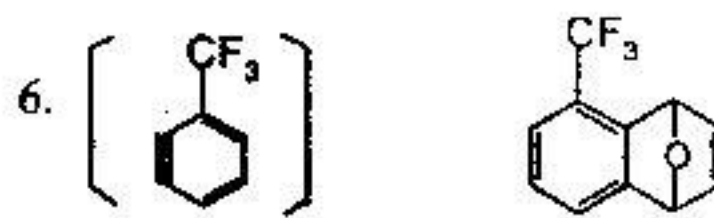
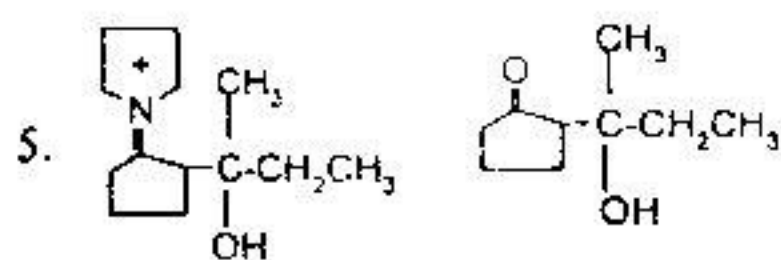
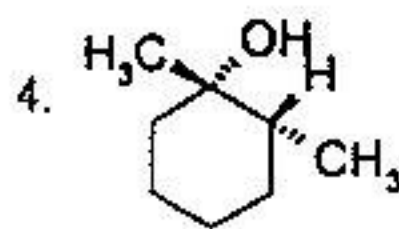
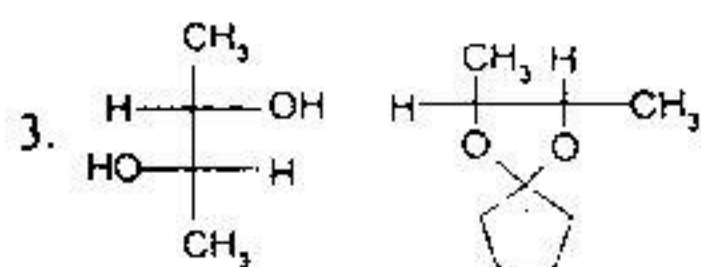
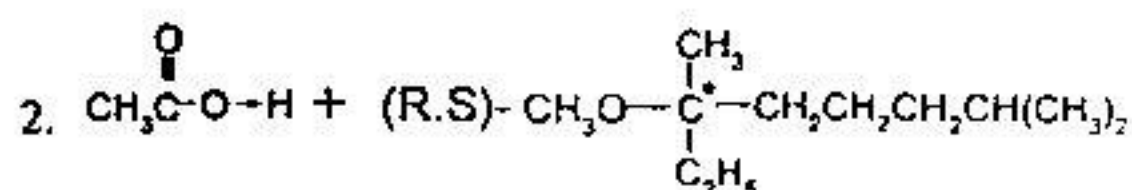
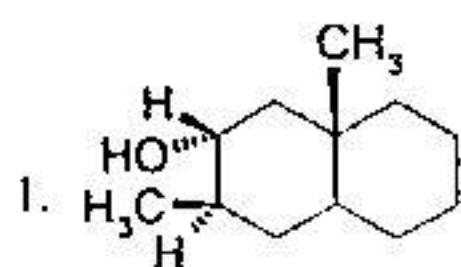
考试科目：有机化学

一、按指定要求回答下列问题。(3 × 8 = 24 分)

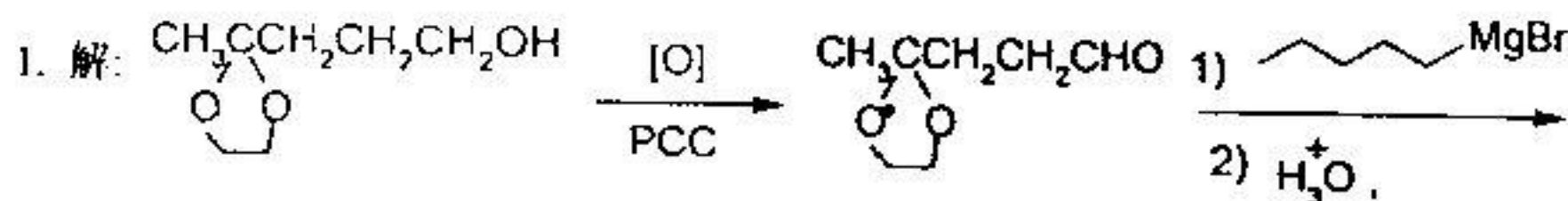
1. a    2. cbad    3. c    4. b    5. cadb    6. a    7. c    8. d

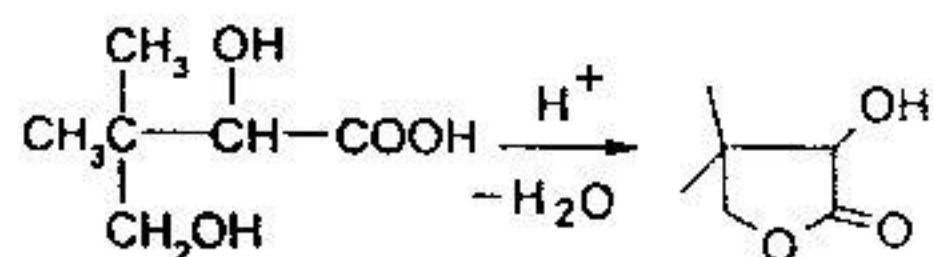
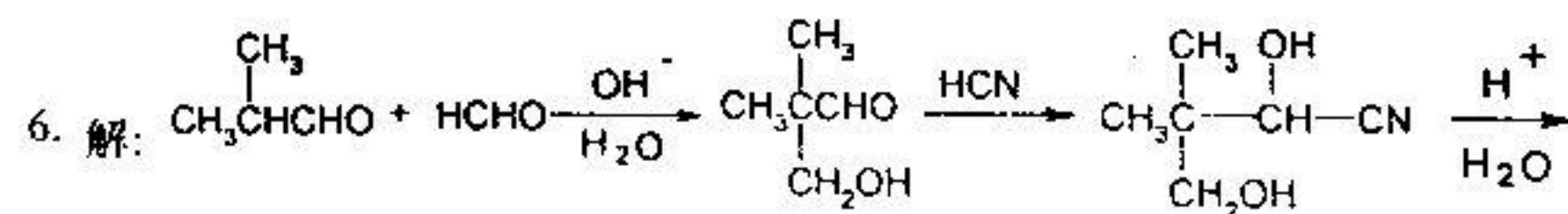
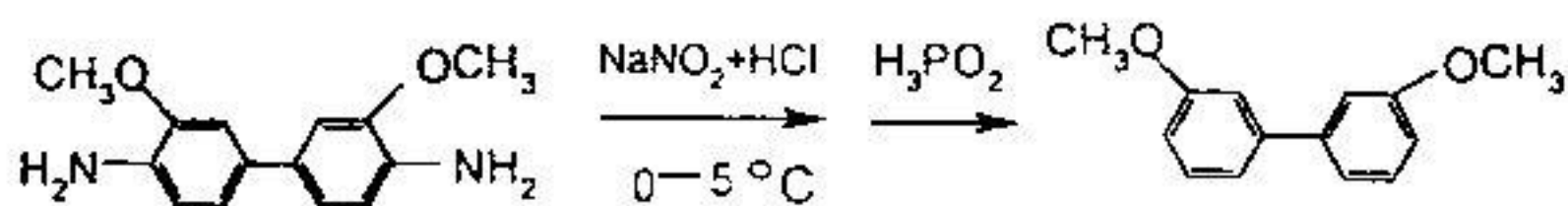
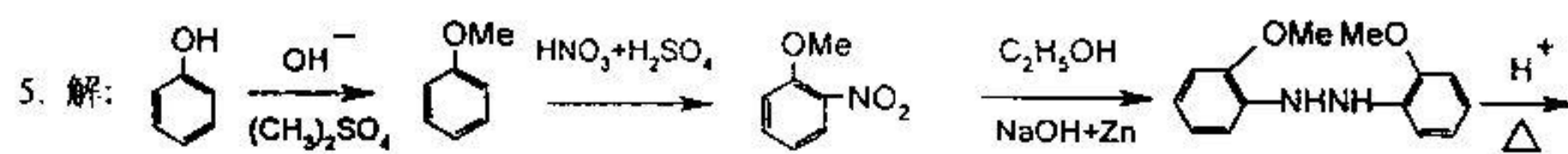
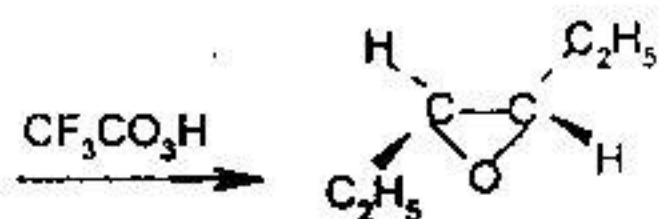
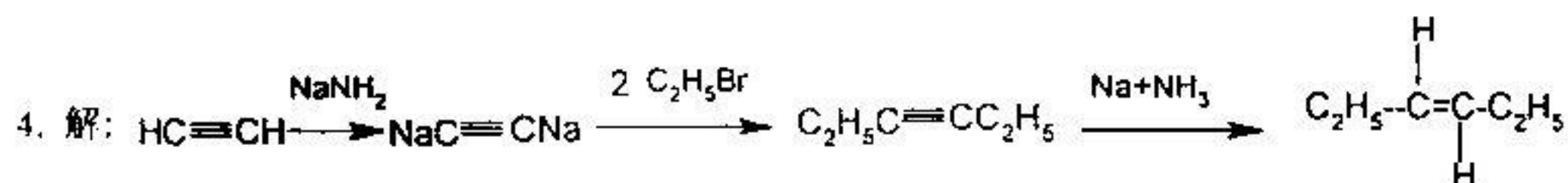
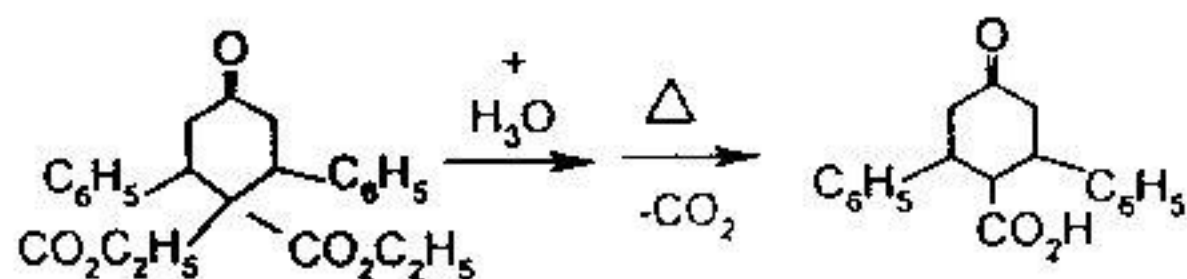
二、写出下列反应的主要产物，有立体异构体者需标明产物的构型。

(3 × 11 = 36 分)



三、由指定原料及必要的无机，有机试剂合成下列化合物。(7 × 6 = 42 分)

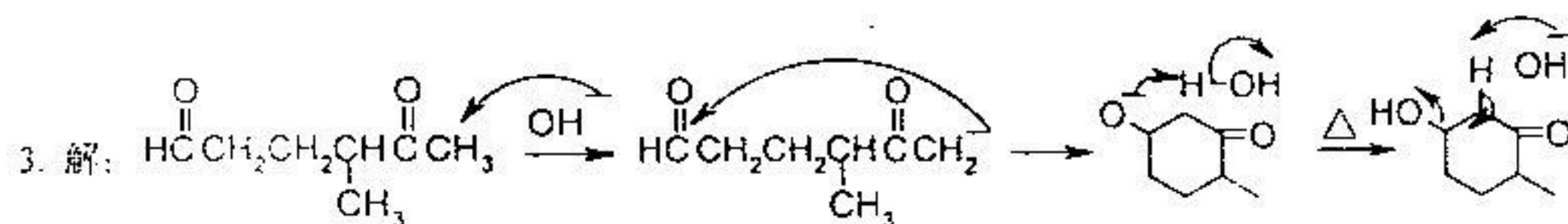
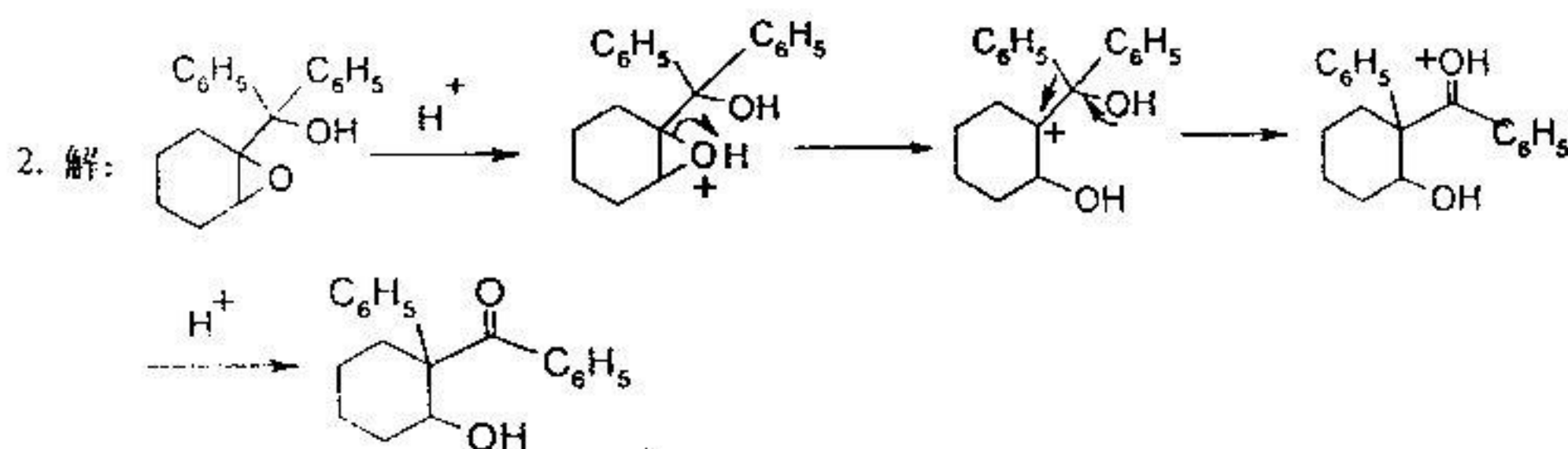
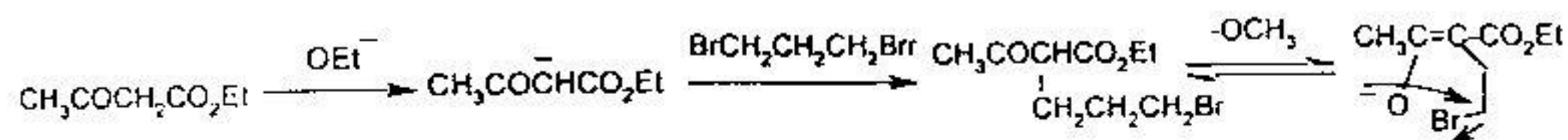




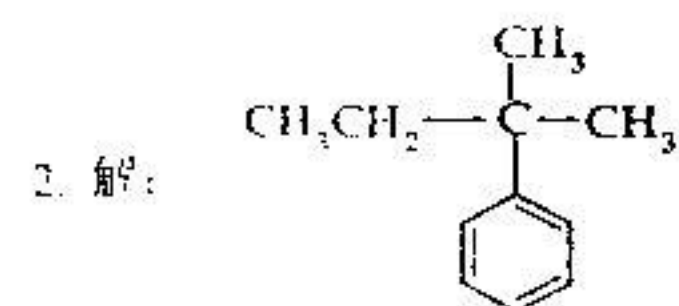
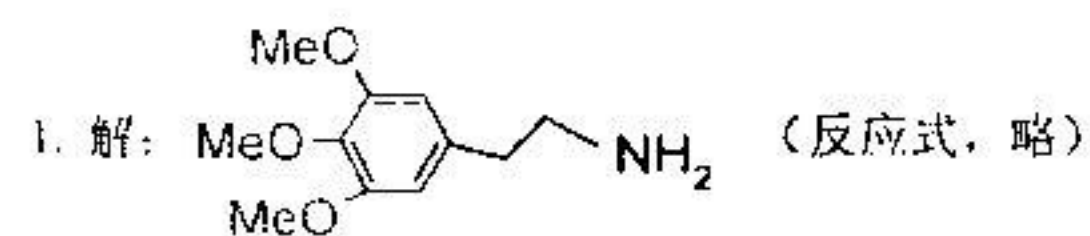


#### 四. 释下列反应机理(7 × 3=21 分)

1. 解:



#### 五. 推测结构。(20 分)



#### 六. 实验题。选择题。(14 × 1=14 分)

- |       |        |        |        |       |         |
|-------|--------|--------|--------|-------|---------|
| 1. c  | 2. ac  | 3. ac  | 4. ac  | 5. ab | 6. abcd |
| 7. bd | 8. bce | 9. ace | 10. ad | 11. b | 12. a   |

13. 答: 熔点、沸点、折光率、薄板层析、旋光率等。