

杭 州 师 范 学 院

2007 年招收攻读硕士研究生入学考试题

考试科目代码: 726

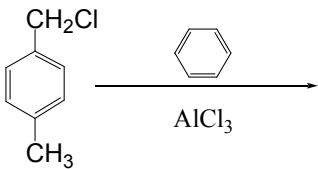
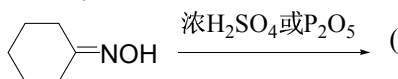
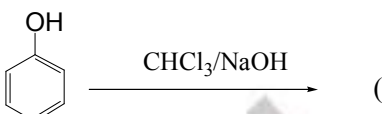
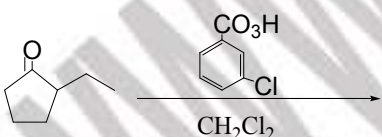
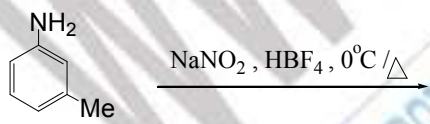
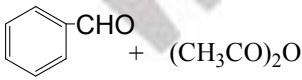
考试科目名称: 有机化学

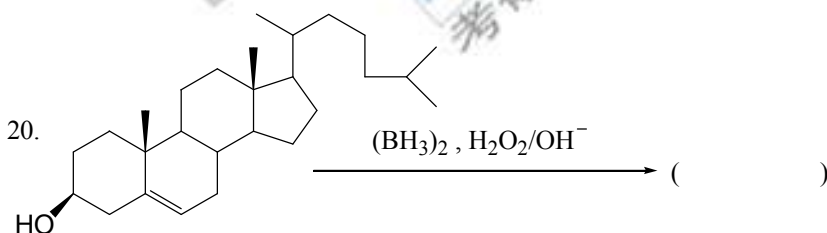
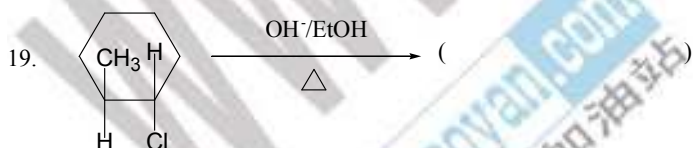
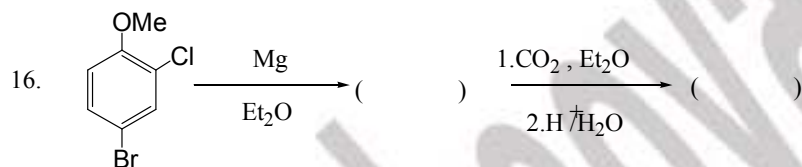
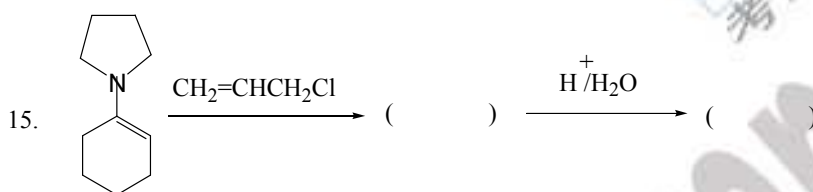
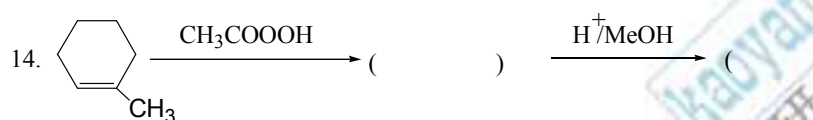
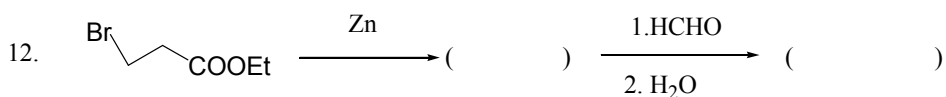
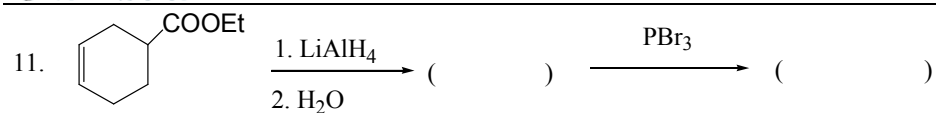
说明: 1、命题时请按有关说明填写清楚、完整;

2、命题时试题不得超过周围边框;

3、考生答题时一律写在答题纸上, 否则漏批责任自负;

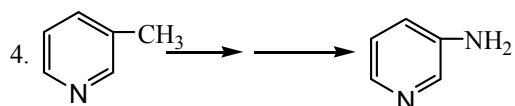
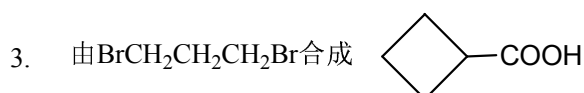
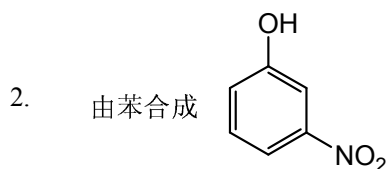
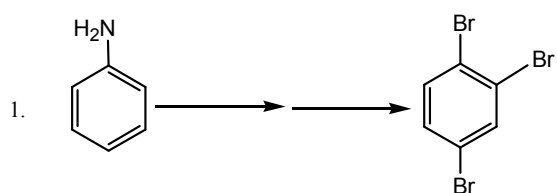
、完成下列反应 (54 分):

1.  ()
2.  ()
3.  ()
4. $\text{PhCOCH}_2\text{CH}_3 \xrightarrow[\text{NaOH, (HOCH}_2\text{CH}_2)_2\text{O}]{85\%\text{H}_2\text{NNH}_2, \text{H}_2\text{O}}$ ()
5. $2\text{CH}_3\text{COOEt} \xrightarrow{\text{EtONa}}$ ()
6. $\text{RCOCH}_3 + \text{HCHO} + \text{Me}_2\text{NH}\cdot\text{HCl} \xrightarrow{-\text{H}_2\text{O}}$ ()
7.  ()
8.  ()
9.  ()
10. $\text{RCONH}_2 + \text{Br}_2 + \text{NaOH} \longrightarrow$ ()

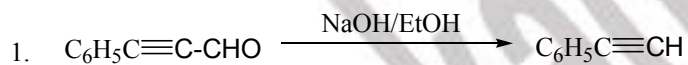


二、从指定的原料出发进行合成（常规有机试剂和无机试剂可任选）（40 分）：

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三、请给下列反应提出合理的反应机理 (36 分):



四、推测化合物的结构 (20 分):

1. C_5H_8 , $^1\text{H NMR}$ 只有一组峰。

2. $\text{C}_6\text{H}_{10}\text{O}_2$, IR: $1700, 1380\text{cm}^{-1}$, $^1\text{H NMR}$: 2.2 (s, 6H), 2.7 (s, 4H) .

3. $\text{C}_4\text{H}_8\text{O}$, IR: 1735cm^{-1} , $^1\text{H NMR}$: 1.0 (t, 3H), 1.5 (m, 2H), 2.4 (t, 2H), 9.9 (s, 1H)