

学院

专业班

学号

姓名

密封线

密封线

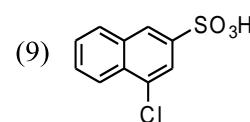
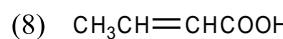
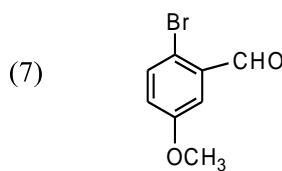
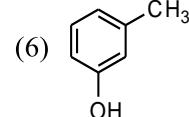
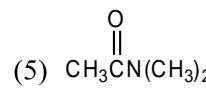
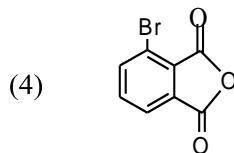
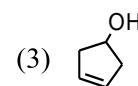
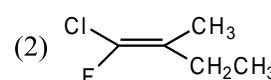
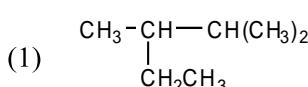
天津工业大学 (2019—2020 学年第二学期)《有机化学》期末试卷 A 卷

特别提示：请考生在密封线左侧的指定位置按照要求填写个人信息，若写在其它处视为作弊。本试卷共有五道大题，请认真核对后做答，若有疑问请与监考教师联系。

满分	12	40	12	20	16	总分	复核
题目	一	二	三	四	五		
得分							
评阅人							

一. 命名或写出下列化合物的构造式：

满分	12
得分	



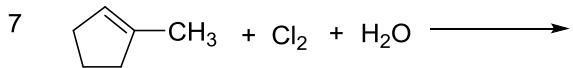
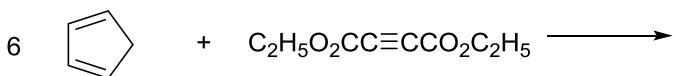
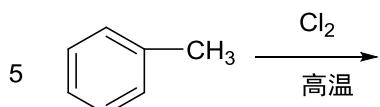
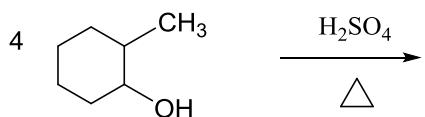
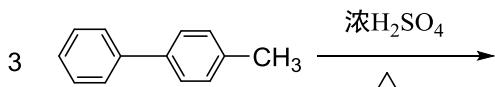
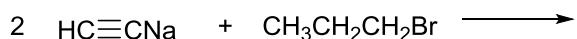
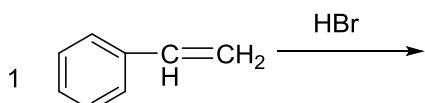
(10) 苯甲酸乙酯

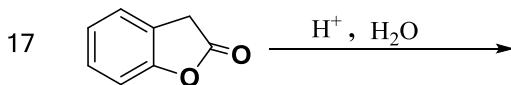
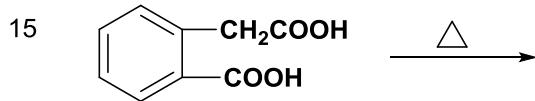
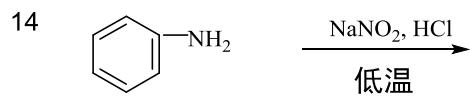
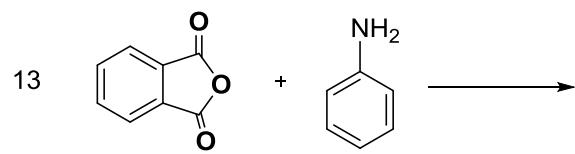
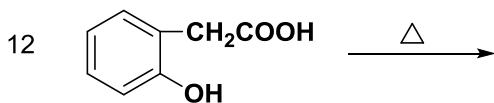
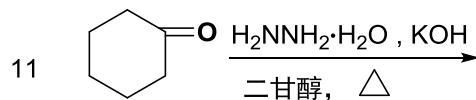
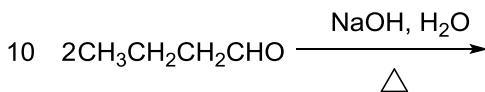
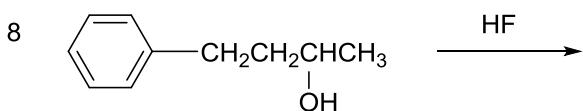
(11) 丙酰氯

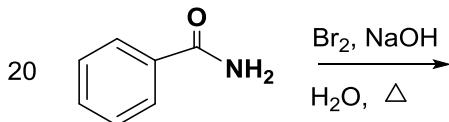
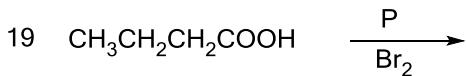
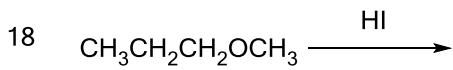
(12) 2-氯丁烷

满分	40
得分	

二. 按要求完成下列反应方程式:







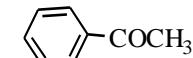
满分	12
得分	

三. 选择题:

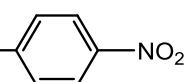
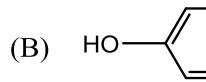
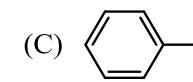
1. 下列化合物按 $\text{S}_{\text{N}}2$ 进行反应活性最大的是 ()

- A 2-甲基-2-溴丁烷 B 3-甲基-1-溴丁烷 C 2-甲基-3-溴丁烷

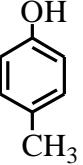
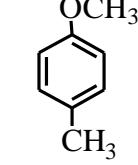
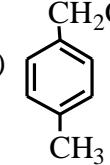
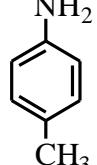
2. 下列化合物中哪个不能发生碘仿反应 ()

- A ICH_2CHO B $\text{CH}_3\text{CH}_2\text{CHO}$ C $\text{CH}_3\text{CH}_2\text{CH}(\text{OH})\text{CH}_3$ D 

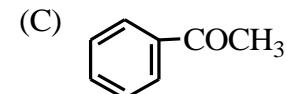
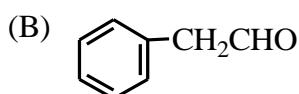
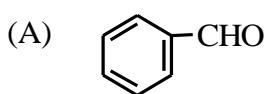
3. 下列化合物酸性最强的是 ()

- (A)  (B)  (C) 

4. 下列化合物能与 FeCl_3 溶液发生显色反应的是 ()

- (A)  (B)  (C)  (D) 

5. 下列化合物能与费林试剂发生反应的是 ()

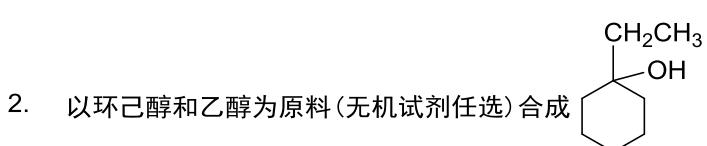
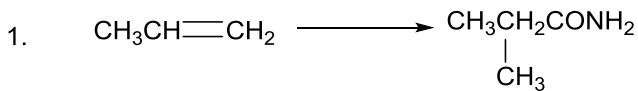


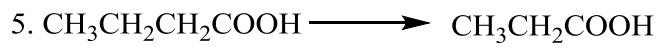
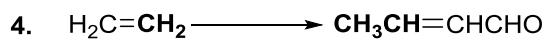
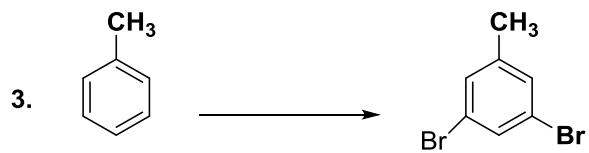
6. 鉴别四个碳以下的一元伯、仲、叔醇所用试剂可以是
()。

- A Tollens 试剂 B Lucas 试剂 C AgNO_3 醇溶液
D Grignard 试剂

四. 由指定的化合物为起始原料, 合成下列化合物 (三个碳以下的有机物和无机物任选):

满分	20
得分	





满分	16
得分	

五. 按题意，推测结构：

1、化合物 **A**、**B**、**C** 的分子式均为 $C_3H_6O_2$, **A** 可与碳酸钠作用放出气体，而 **B** 和 **C** 无此性质， **B** 和 **C** 在氢氧化钠水溶液中加热可发生水解反应，且 **B** 的水解产物 **D** 可发生碘仿反应。写出 **A**、**B**、**C**、**D** 的结构式。

2 化合物 **A** ($C_{10}H_{12}O$) 与 $Br_2 + NaOH$ 作用、酸化得到 **B** ($C_9H_{10}O_2$); **A** 经克莱门森还原得到 **C** ($C_{10}H_{14}$); 在稀碱溶液中，**A** 与苯甲醛作用生成 **D** ($C_{17}H_{16}O$), **A**、**B**、**C** 和 **D** 经强烈氧化都得到邻苯二甲酸，试写出 **A**、**B**、**C** 和 **D** 的构造式。