

國立彰化師範大學 98 學年度碩士班招生考試試題

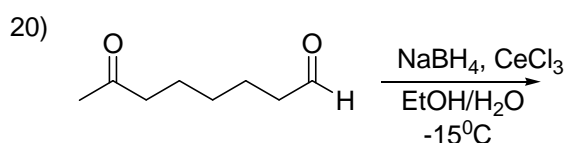
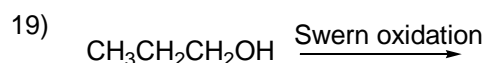
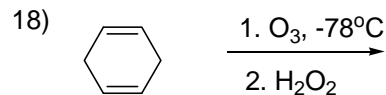
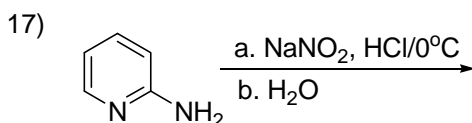
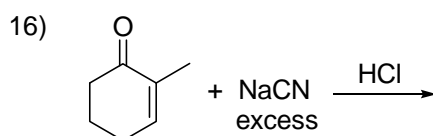
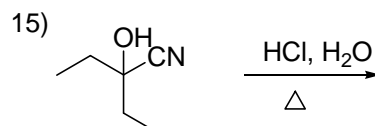
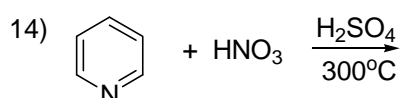
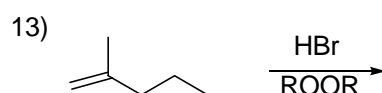
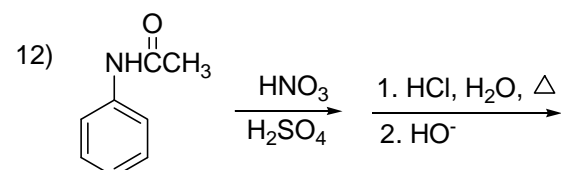
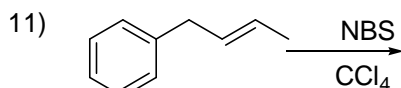
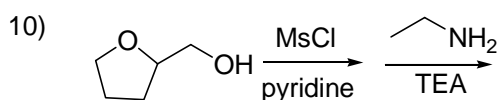
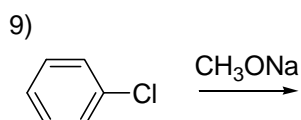
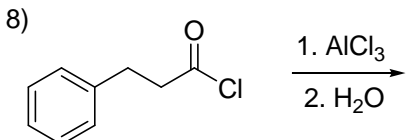
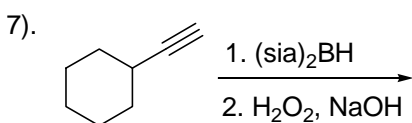
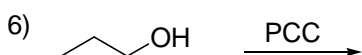
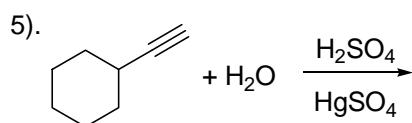
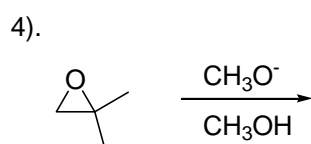
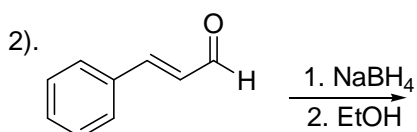
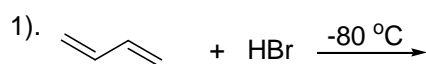
系所：化學系

科目：有機化學

☆☆請在答案紙上作答☆☆

共 2 頁，第 1 頁

1. Please predict the major product for the following reactions. (50%)



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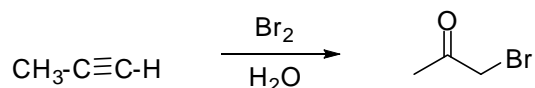
系所：化學系

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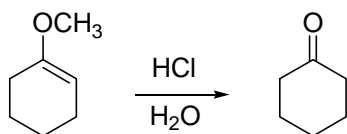
☆☆請在答案紙上作答☆☆

共 2 頁，第 2 頁

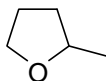
2. Propose a mechanism to account for the products formed in the following reaction: (10%)



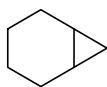
3. Please propose a mechanism for this reaction. (10%)



4. How would you prepare the following compound from acetylene and any reagents with no more than two carbon atoms or inorganic reagents? (10%)



5. How would you prepare the following compound from any reagents with no more than four carbon atoms or inorganic reagents? (10%)



6. Explain why the addition of HBr to alkenes **A** and **C** is regioselective, forming addition products **B** and **D**, respectively. (10%)

