

淡江大學 100 學年度轉學生招生考試試題

36

系別：化學學系三年級

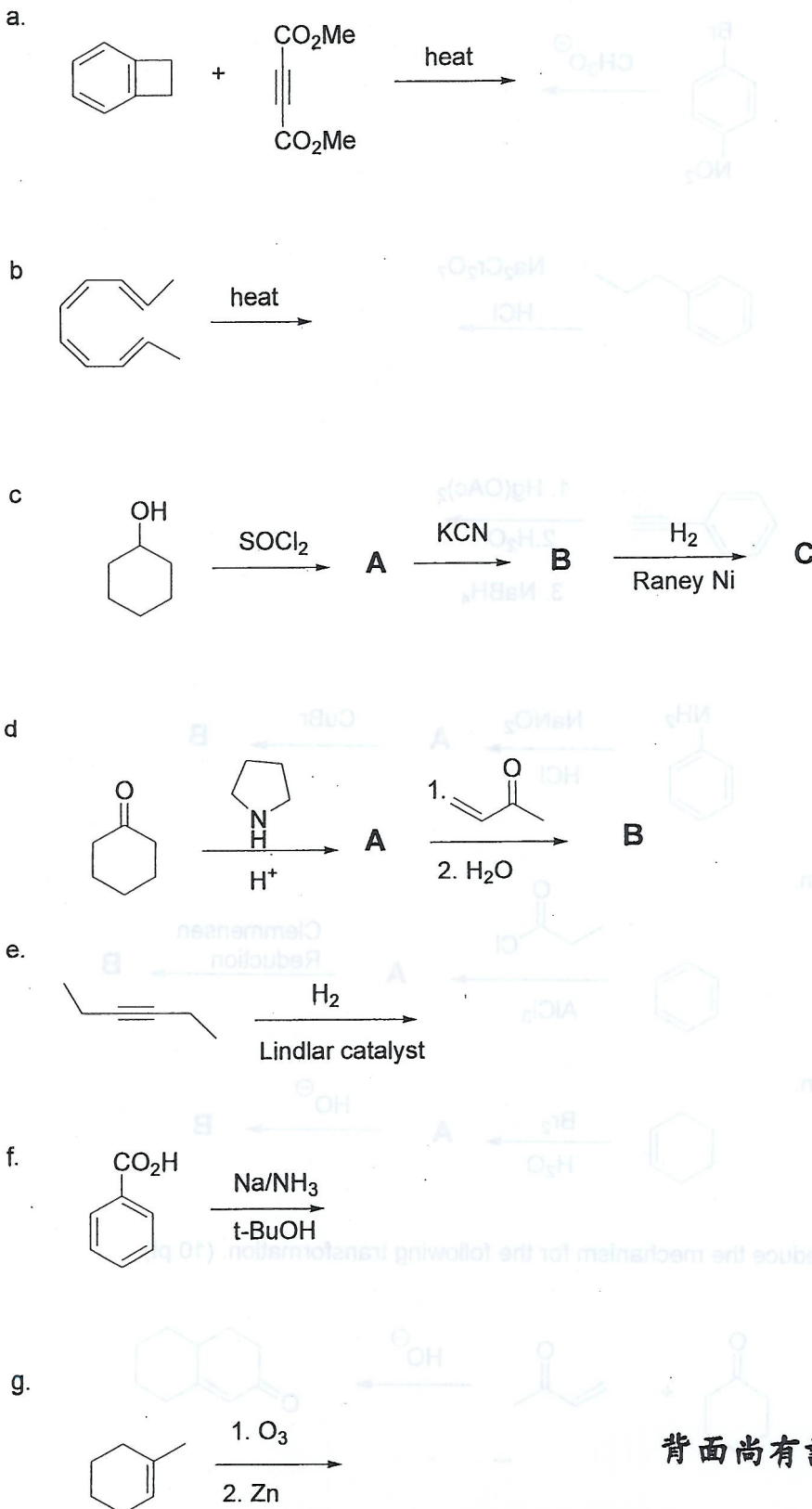
科目：有機化學

36-1

考試日期：7月19日(星期二) 第3節

本試題共 5 大題，第一頁

1. Draw structure(s) of intermediate(s) or product(s) for each following reaction. Indicate the stereochemistry if necessary. Answer your questions in order. (60 pt)



本試題雙面印刷

背面尚有試題

淡江大學 100 學年度轉學生招生考試試題

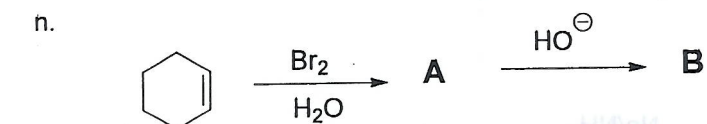
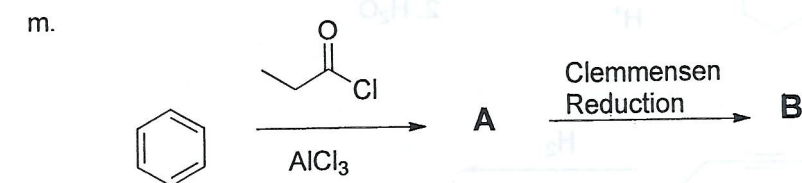
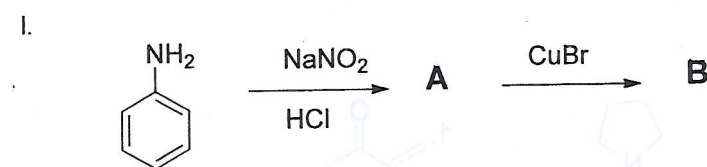
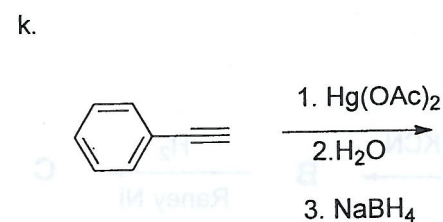
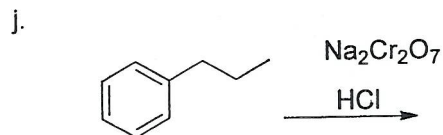
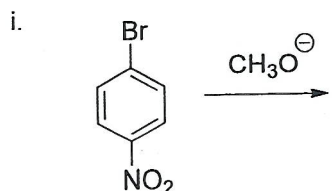
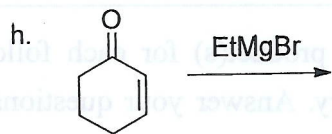
36-2

系別：化學學系三年級

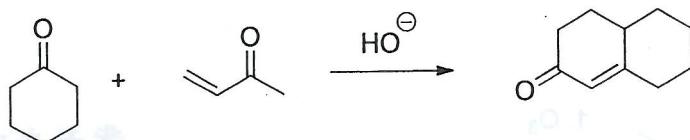
科目：有機化學

考試日期：7月19日(星期二) 第3節

本試題共 5 大題， 第二頁



2. Deduce the mechanism for the following transformation. (10 pt)



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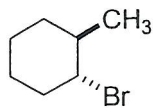
科目：有機化學

36-3

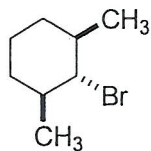
考試日期：7月19日(星期二) 第3節

本試題共 5 大題，第 3 頁

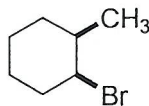
3. (a) Draw the most stable chair conformation of each following compound (6 pt)
 (b) Rank in order of decreasing reactivity in an E2 reaction.(4 pt)



A

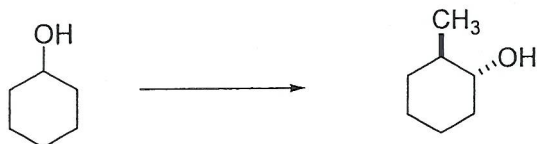


B



C

4. Propose a synthetic strategy from the provided starting material. (10 pt)



5. Determine the structure based on the following NMR spectrum. Its chemical formula is $C_{11}H_{14}O_2$ (10 pt)

