

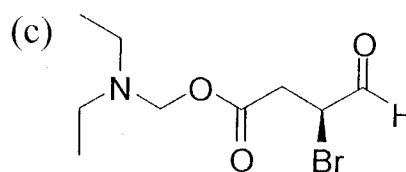
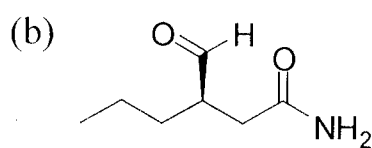
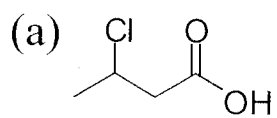
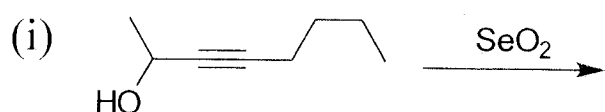
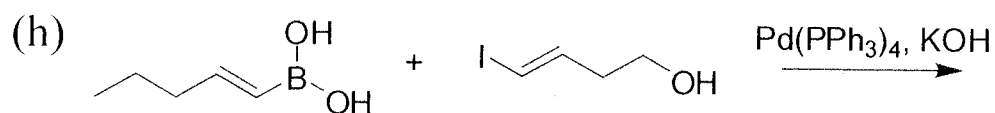
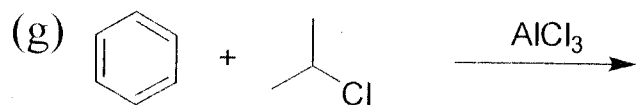
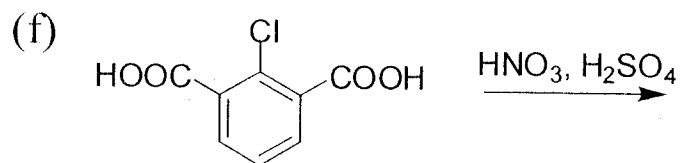
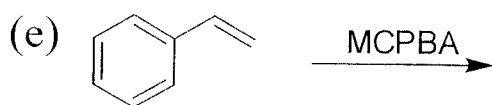
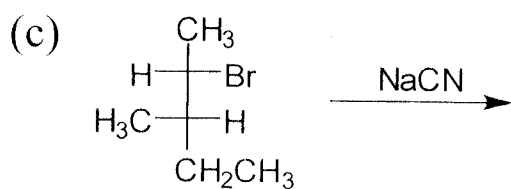
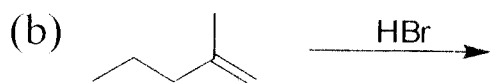
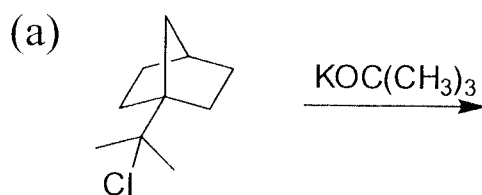
淡江大學 102 學年度日間部轉學生招生考試試題

系別：化學學系三年級

科目：有機化學

考試日期：7月24日(星期三) 第3節

本試題共 6 大題， 3 頁

1. Give the **IUPAC Name** for each of the following compounds. (9 pts)2. Draw the structure(s) of the **principle product(s)** in each case and indicate the stereochemistry if necessary. (36 pts)

本試題雙面印刷

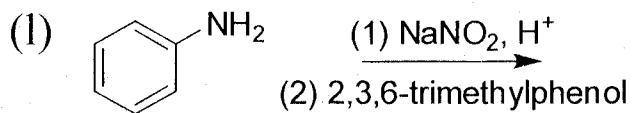
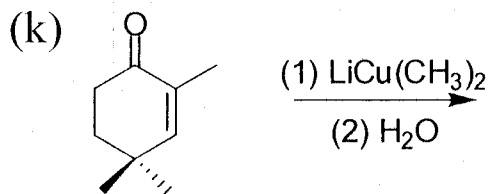
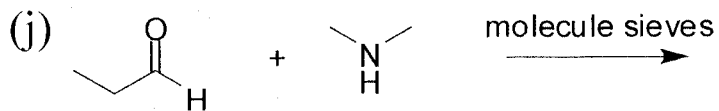
淡江大學 102 學年度日間部轉學生招生考試試題

系別：化學學系三年級

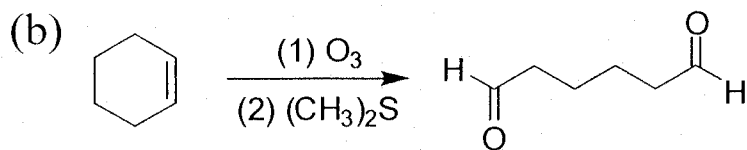
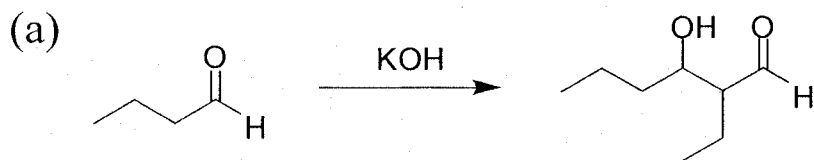
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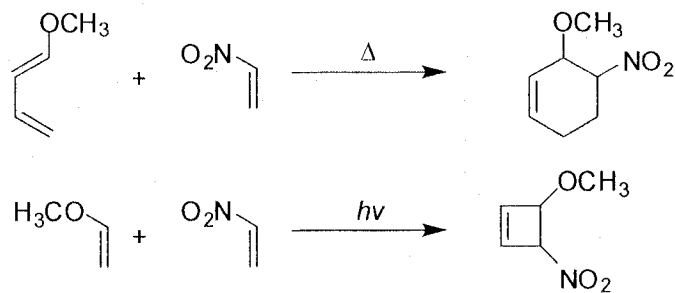
本試題共 6 大題， 3 頁



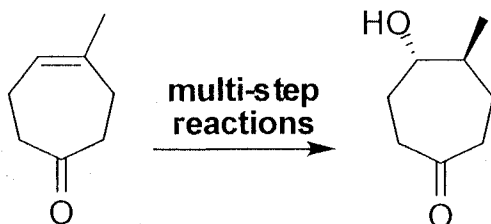
3. Propose the reaction mechanism for each of the following reactions. (20 pts)



4. Explain the following result observed for general cycloadditions. (15 pts)



5. Propose a reasonable strategy for the following synthesis: (10 pts)



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6. The formula of an unknown compound is C_7H_7Br . Determine its structure based on the 300 MHz 1H and 75 MHz ^{13}C spectra (obtained in $CDCl_3$ solution) given as following. (10 pts)

