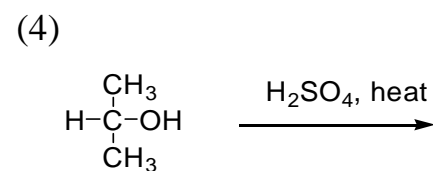
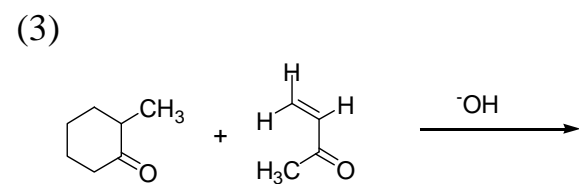
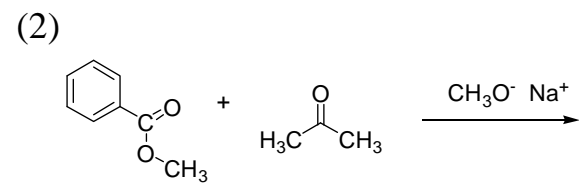
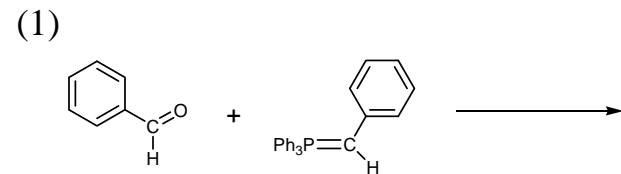


國立嘉義大學九十六學年度

生物醫藥科學研究所碩士班招生考試 (甲組) 試題

科目：有機化學

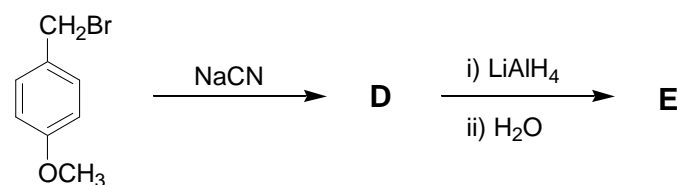
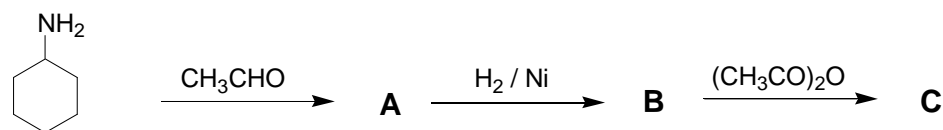
1. Predict the major product of the following reactions. (20%, 5% each)



2. Drawing and compared the energy difference of cyclohexane in the following conformation states. (20%, 5% each)

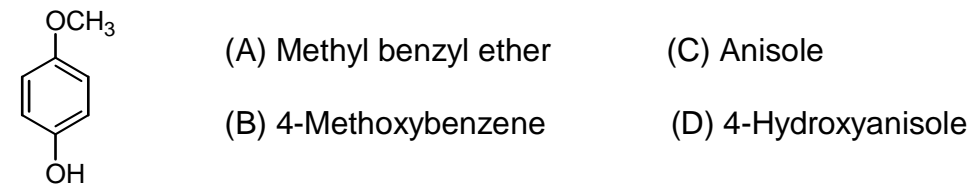
(1) chair (2) boat (3) twist (4) half-chair.

3. Please provide the structures for **A - E**. (20%, 4% each)

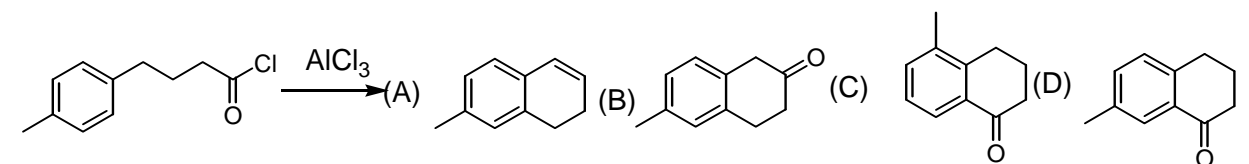


4. Select the best answer for the following questions. (20%, 4% each)

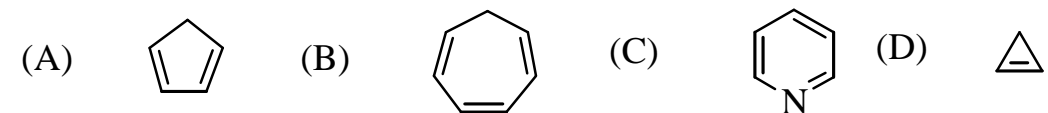
(1) What is the correct name of the following compound?



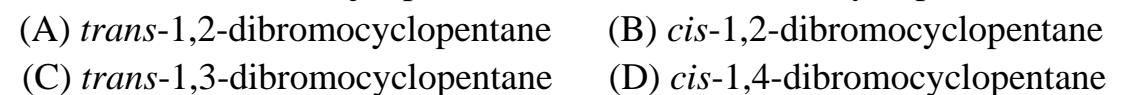
(2) Which would be the structure of the product for the following Friedel-Crafts reaction?



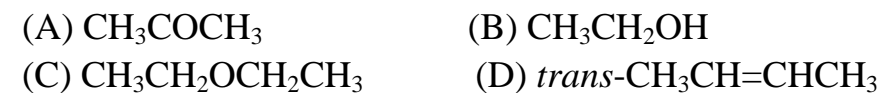
(3) Which is aromatic of the following species?



(4) What would be the major product from the addition of cyclopentene with Br_2/CCl_4 ?



(5) Which of the following compound has a sharp IR absorption at 1610 cm^{-1} ?



5. Predict the organic product and propose a mechanism for each of the following reactions. (20%, 10% each)

