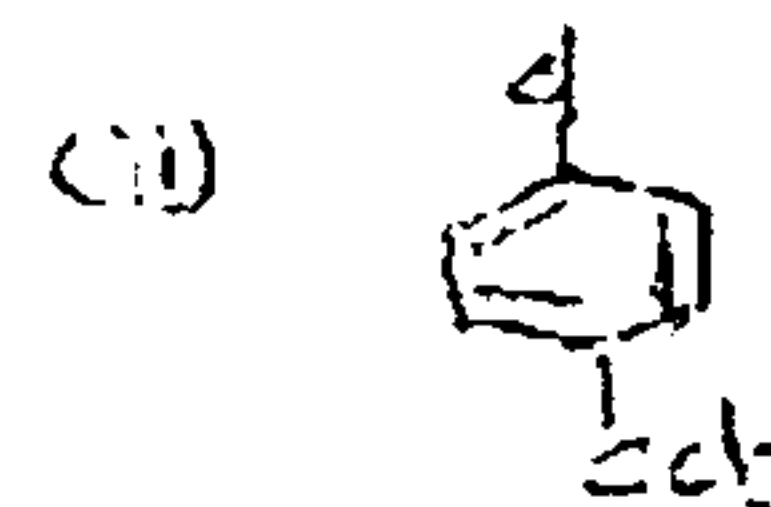
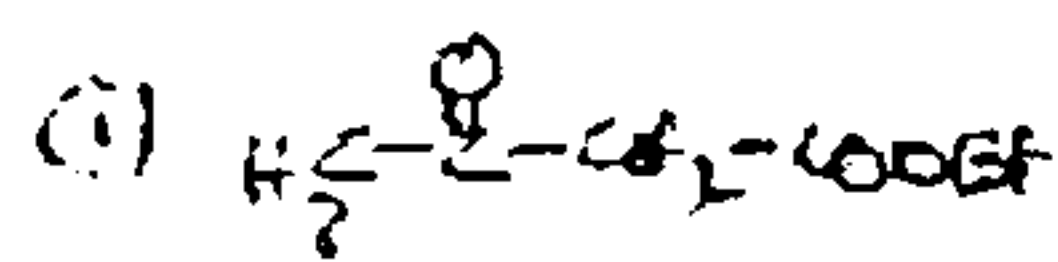


6 a) Explain 1, 2-asymmetric induction with examples. What is Cram's rule? Describe with different models including Felkin-Anh model. 12

OR

b) Describe the sharpless asymmetric epoxidation. 12

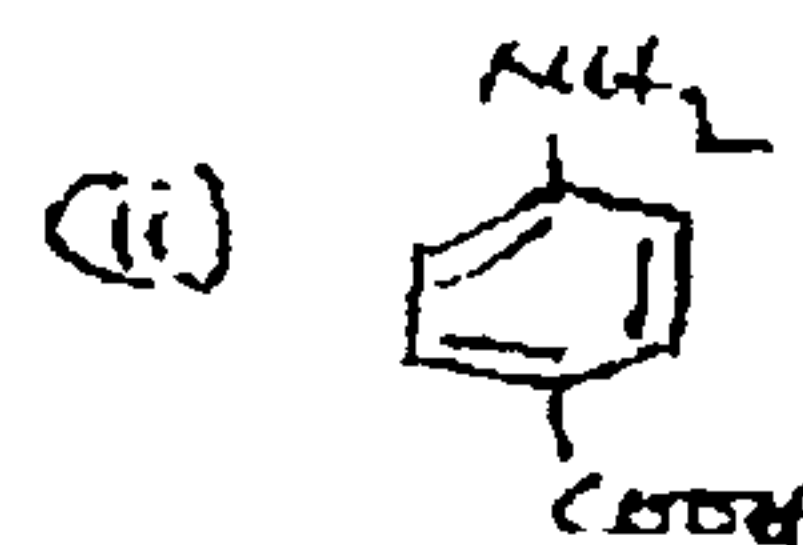
7 a) Give the retrosynthetic analysis of the following compounds. 6



b) Explain the importance of order of events in organic synthesis. 6

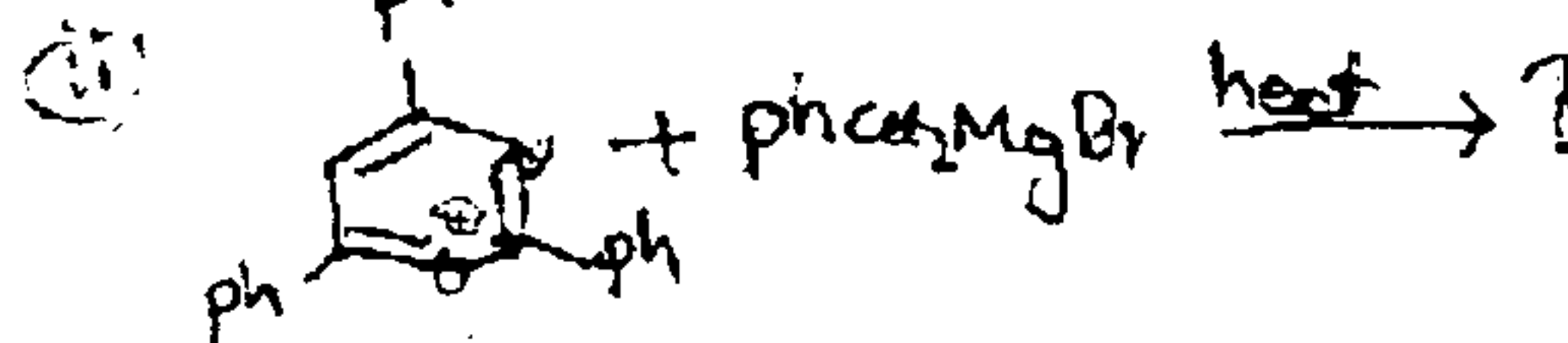
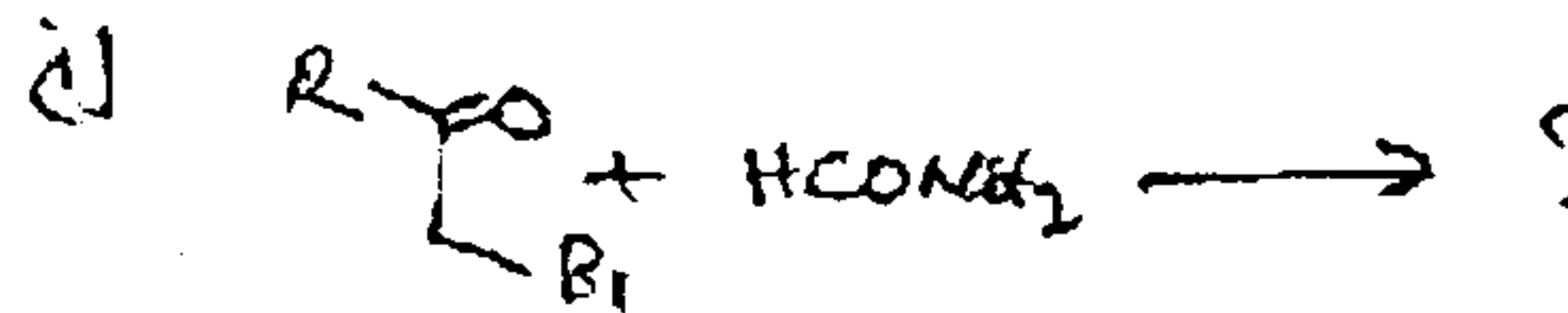
OR

c) Give the retrosynthetic analysis of the following compounds. 6



d) Describe the retrosynthetic analysis involving chemoselectivity 6

8 a) Write the products formed and mechanism involved in the following reactions 6



b) How do you prepare pyrazole and pyrimidine starting from 1, 3-diketone? 6

OR

c) Give the synthesis of pyrimidine and explain its reactivity. 6

d) Complete the following reactions with mechanism 6

