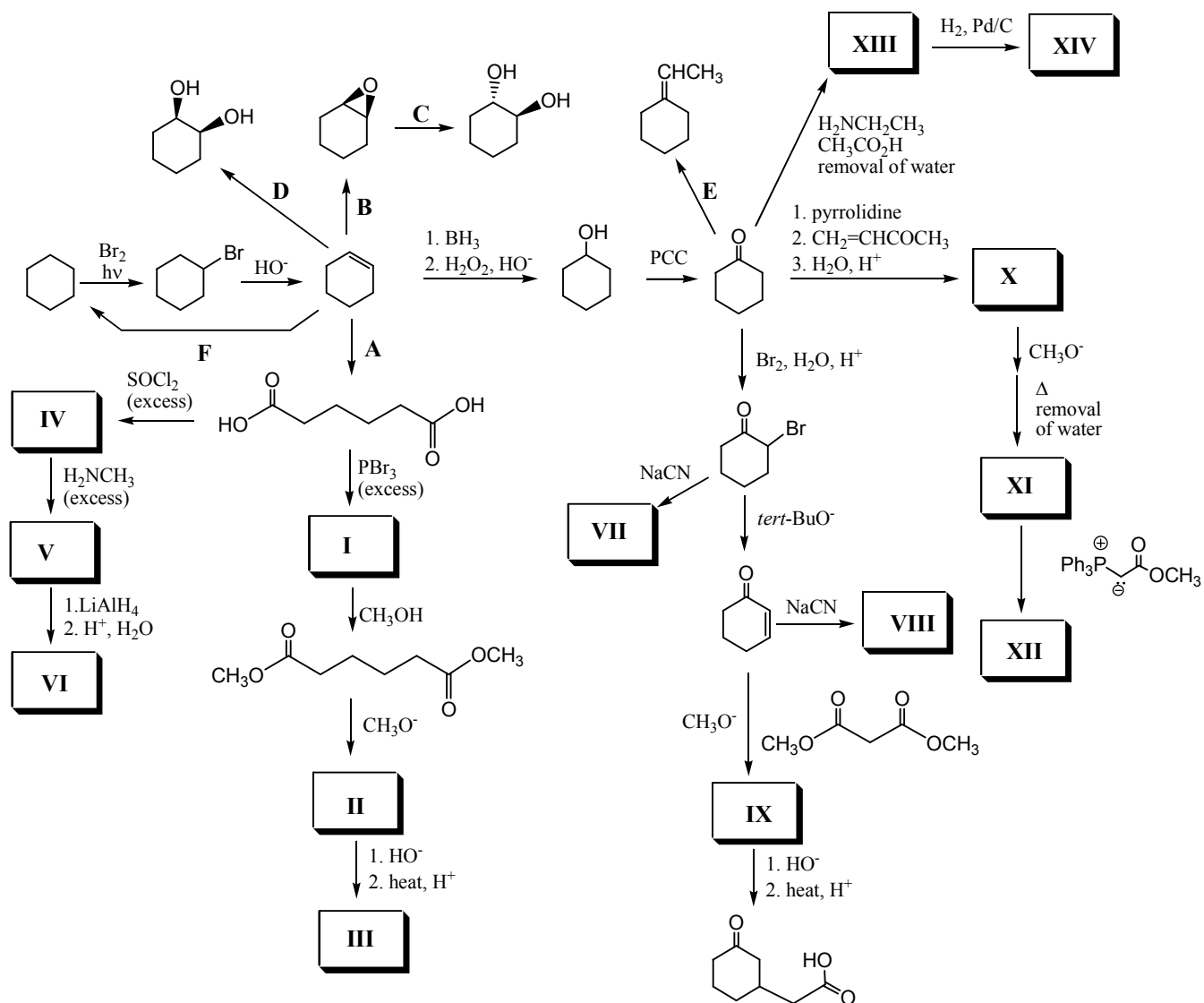
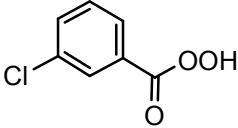
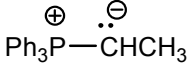
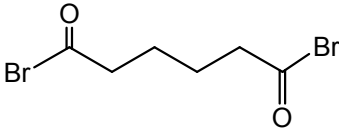
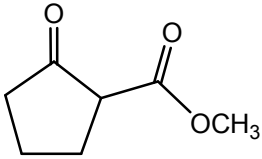
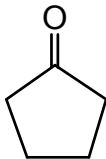
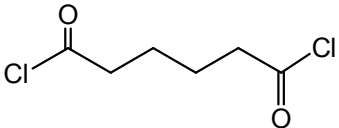
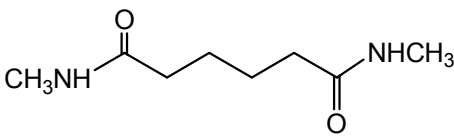
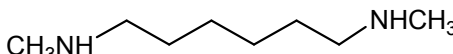
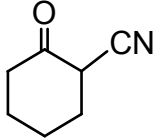
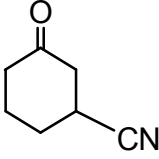
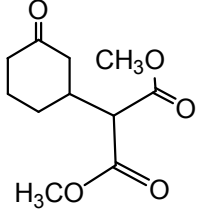
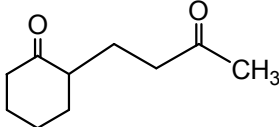
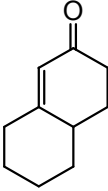
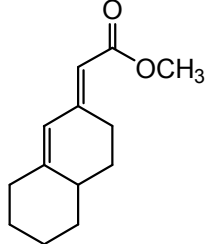
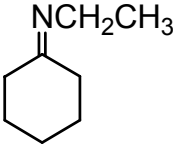
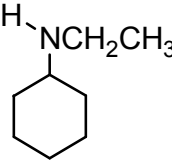


II. Use the provided table and fill in compound structures and reagents for the following synthesis. Make sure your answer is correctly put in the designated box of the given table. **No partial point will be given for the misplaced answer.** (40 points)

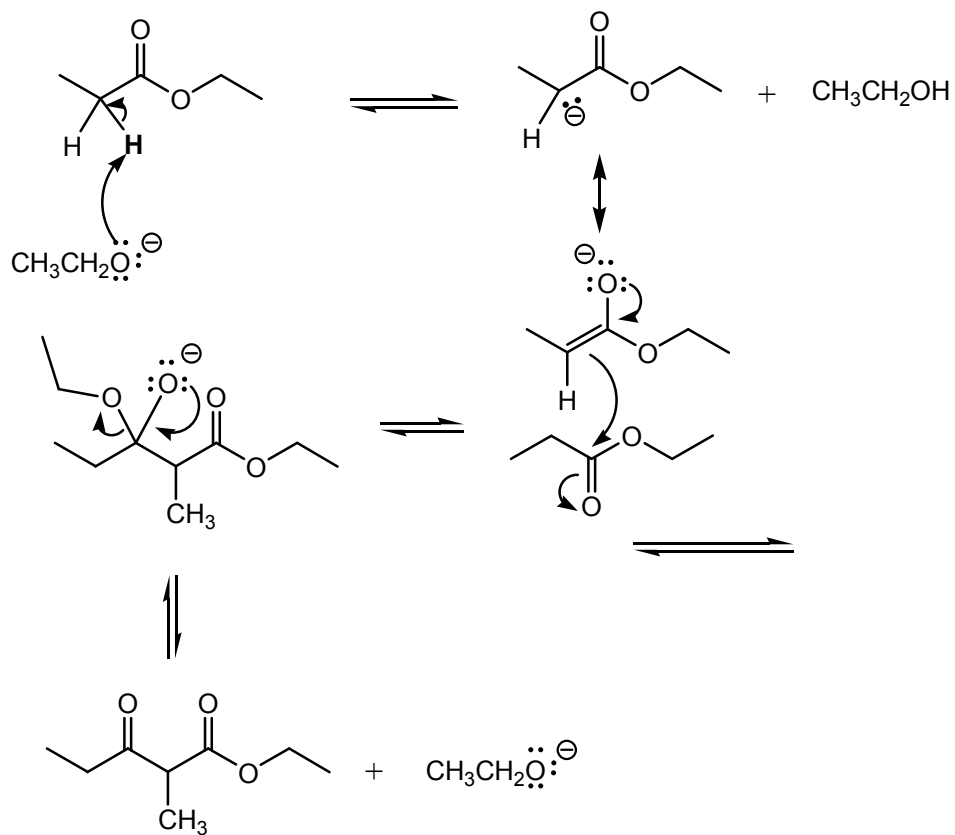
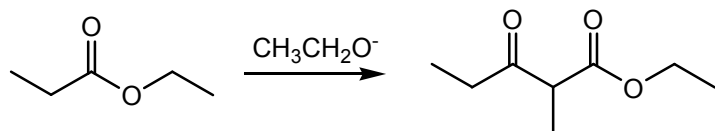


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A: 1. O ₃ 2. H ₂ O ₂	B: mCPBA 	C: H ⁺ , H ₂ O
D: OsO ₄	E: 	F: H ₂ , Pt/C
I: 	II: 	III: 
IV: 	V: 	VI: 
VII: 	VIII: 	IX: 
X: 	XI: 	XII: 
XIII: 	XIV: 	

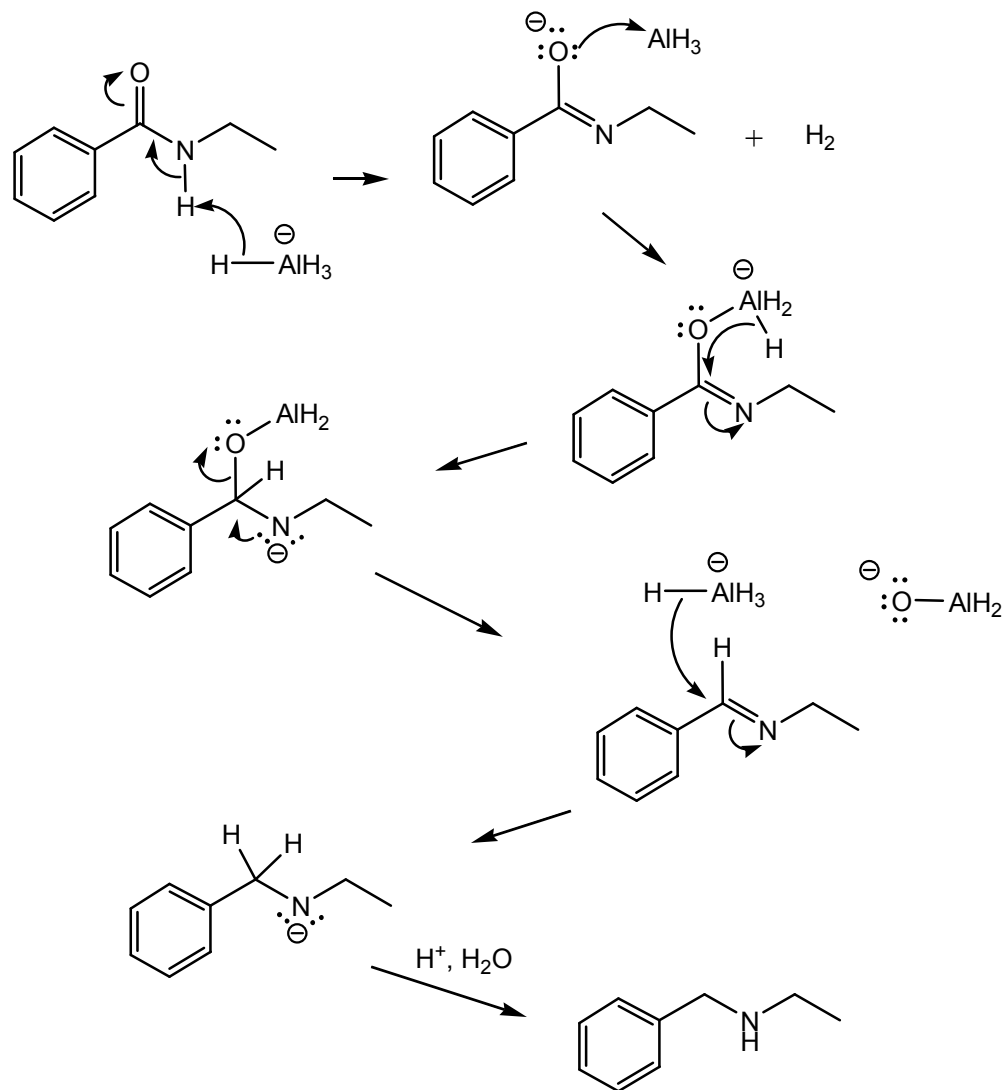
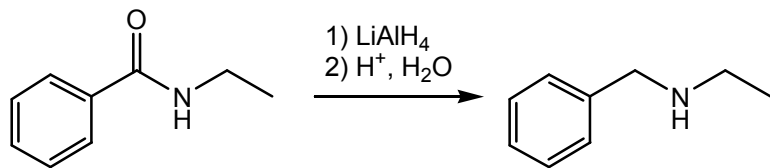
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III. Propose an electron-pushing mechanism for the following reaction. (10 points)



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IV. Propose an electron-pushing mechanism for the following reaction. (10 points)



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V. Propose a synthesis for one of the compounds circled in the boxes using the provided starting material and any reagents you know: (20 points)

