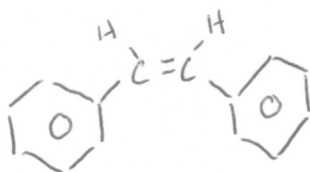
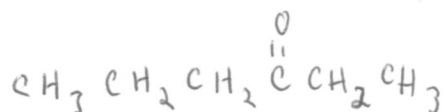


Short Answer

8. Cyanide ion reacts with cyclohexanone, followed by acid workup. Write a complete mechanism.

9. Show how you could synthesize these compounds from any compound having three carbons or fewer. You can use any reagent necessary, but keep to the three carbons.



10. Give an example of a synthesis that requires the protection of an alcohol. You may use any reaction, any organic compounds. You must show the reaction that does the protecting.

11. Give an example of a synthesis that requires the protection of a ketone. You may use any reaction, any organic compounds. You must show the reaction that does the protecting.