Pre-Lab 2 Quiz: Lab 3- Thiamine Catalyzed Benzoin Condensation. Name: Date:	
1.	What is the structure of Vitamin B 1? Show conjugate acid(Vitamin B 1)/base(OH reaction to produce thaizolium and enamine yilide rings.
2.	Why is yilide of Vitamin B_1 is stable? (10 pts)
3.	Write the step 3 (coupling of two benzaldehyde molecules) in the Vitamin B_1 catalyzed reaction mechanism of the benzoin condensation. (10 pts)
4.	How many moles are in 7 mL of benzaldehyde? (10pts) Density of benzaldehyde (g /mL): 1.04)
	Ans:
5.	Write the chemical reaction for benzoin condensation. What is the theoretical yield of benzoin starting with 7 mL of benzaldehyde? (10 pts)
	Ans: