Chem 352 - Spring 2011 Quiz 3

1.	The	The word "glycolysis" translates to mean "to split sugar".		
	a.	Using names for the reactants and products, wriglycolysis:	ite a net balanced chemical equation for	
	b.	Using <i>structural formulas</i> for the reactants and the <i>aldolase</i> reaction in glycolysis:	products, write the balanced chemical equation for	
	c. d.	What class of enzyme catalyzed reactions does The ΔG° ' for the aldolase reaction in muscle is reaction able to proceed in the direction of production	+22.8 kJ/mol. In view of this, how is the aldolase	
2.	2. The ATP produced in glycolysis is produced by substrate level phosphorylation of ADP. N draw the structural formulas for the two glycolytic intermediates that are used for thes level phosphorylations:			
2	a.	Name:	b. Name:	
3.	Three of the ten enzymes that catalyze the reactions in the glycolytic pathway are under allosteric control. Identify the three by name and name one example of a <i>negative allosteric effector</i> for each:			
	a.	Name:	Effector	
	b.	Name:	Effector	
	c.	Name:	Effector	