ABE – 20100 Fall 2016

Homework 15 Due Monday 12/05 at the beginning of class

1. (5 pts) Glycolysis can be simplified as:

 $Glucose + 2P_i + 2ADP + 2NAD^{+} \ \ \, -> 2 \ pyruvate + 2ATP + 2NADH + 2H^+ + 2H_2O$ Calculate the enthalpy of reaction.

- 2. (15 pts) Calculate the enthalpies of reaction for the following reactions:
- a) Citrate -> Isocitrate
- b) PEP + ADP + Pi -> Pyruvate + ATP
- c) $NAD^+ + H^+ \rightarrow NADH$