

Name (Printed): _____, _____
(last) (first)

Signature: _____ /20 (Overall on Quiz)

1. (10 points) In the space outlined in the boxes, discuss the reaction catalyzed by Phosphoglucose Isomerase using text and graphics. In the 1st box, draw the structures of the starting materials and products of this reaction **INCLUDING ALL ATOMS**. In the 2nd box, predict its approximate ΔG° (i.e., as a fraction of the ΔG° for the hydrolysis of ATP) being sure to clearly give your reasoning. In the 3rd box, give an overview of the 5 steps of its mechanism (i.e., 2 to 10 words for each step and **NOT A DETAILED MECHANISM**).

/10 (Question #1)