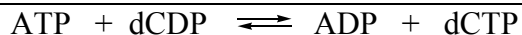


Name (Printed): _____, _____
(last) (first)

Signature: _____ /20 (Overall on Quiz)

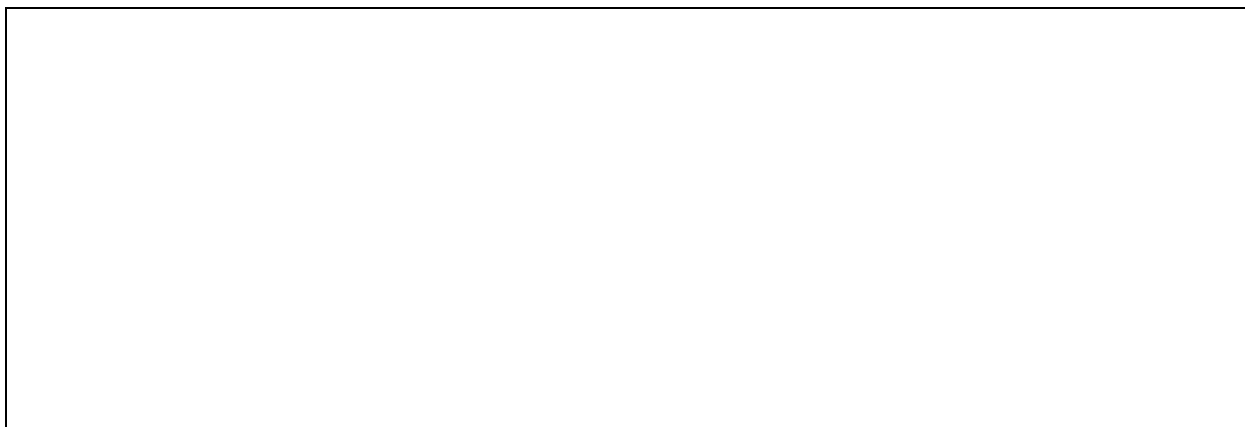
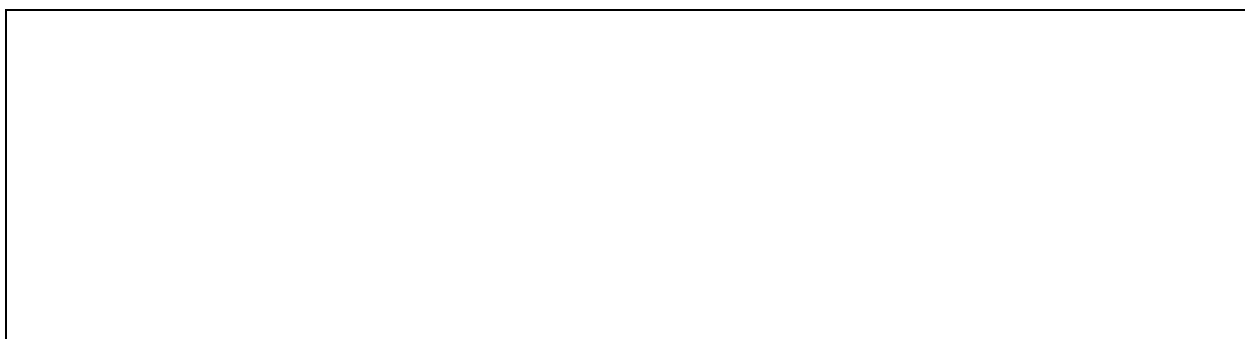
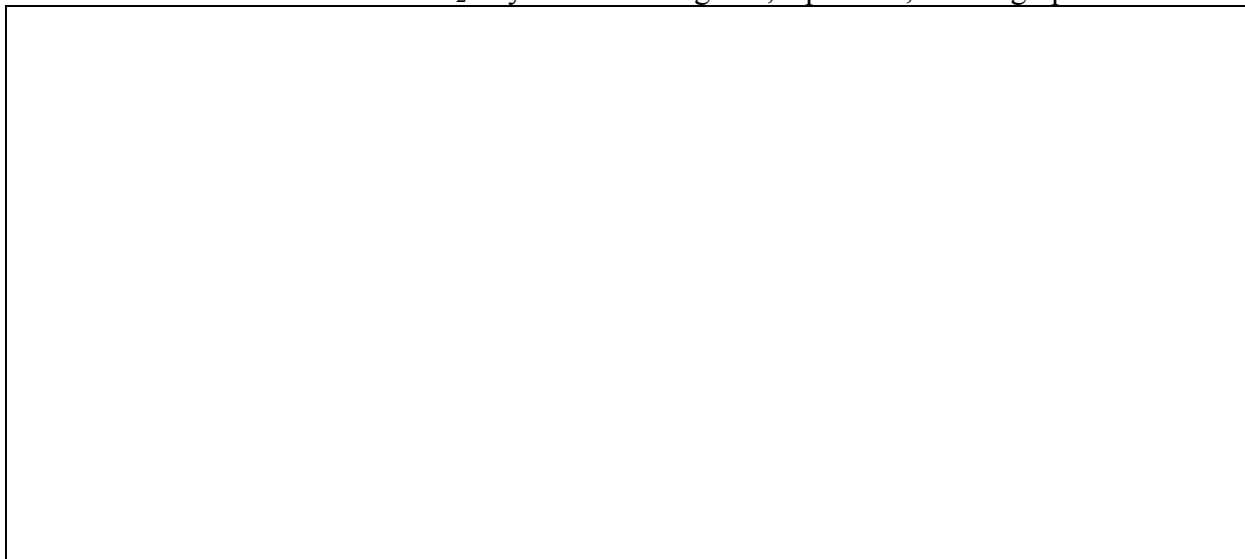
1. (10 points) In the 1st box, draw the structure of dCDP being sure to draw in **every atom** and **all charges** and naming each of the subunits of the molecule. In the 2nd box, name the enzyme that catalyzes the reaction shown and predict its approximate ΔG° (i.e., as a fraction of the ΔG° for the hydrolysis of ATP) being sure to clearly give your reasoning. In the 3rd box, clearly describe the primary role of dCTP in your cells.



/10 (Question #1)

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

2. (10 points) In the 1st box, draw the structure of FAD being sure to draw in **every atom** and **all lone pairs and/or charges** on all heteroatoms (e.g., Nitrogen, Oxygen, Phosphorous, and Sulfur atoms) and naming each of the subunits of the molecule. In the 2nd box, draw the structure of the **Flavin subunit** of FADH₂ being sure to draw in **every atom** and **all lone pairs and/or charges** on all heteroatoms in the Flavin subunit. In the 3rd box, clearly describe the role of FAD/FADH₂ in your cells using text, equations, and/or graphics.



/10 (Question #2)