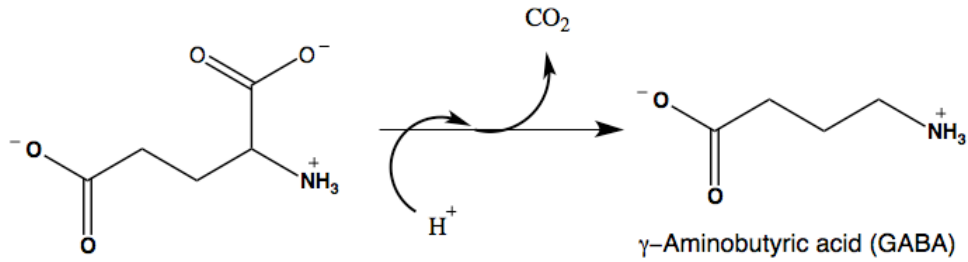


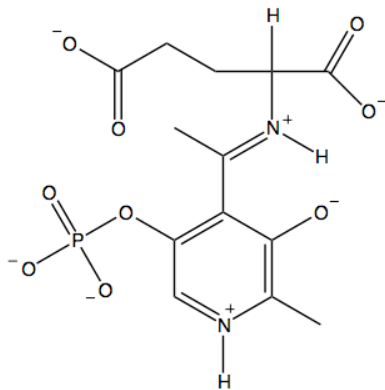
**Quiz 34**

Name: \_\_\_\_\_

1.)  $\gamma$ -Aminobutyric acid (GABA) is a major neurotransmitter functioning in your brain at this moment. What nonessential amino acid is GABA synthesized from?



2.) The GABA synthesis reaction uses a PLP dependent enzyme, which forms the following intermediate. Add electron-pushing arrows to the structure to indicate how this PLP cofactor contributes to this reaction.



3.) If you drink sucrose-sweetened COKE (sucrose is a disaccharide of glucose and fructose) for lunch, diagram (with words) how your brain will synthesize GABA.

FYI (if you've started sneezing with the warm weather):

