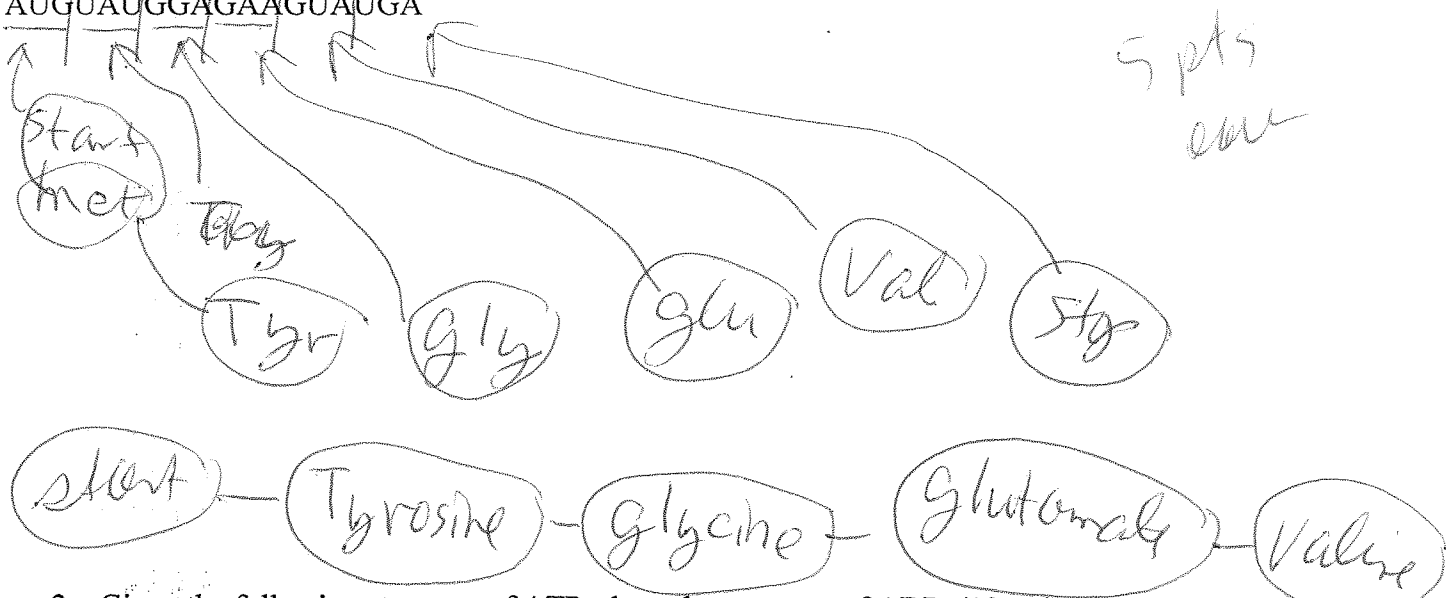
Biochemistry BIO/CHM 338 Fall 16 Dr. Hahn MW am Quiz III 11/9W Exam # _____

Sign Name _____ Print Name _____

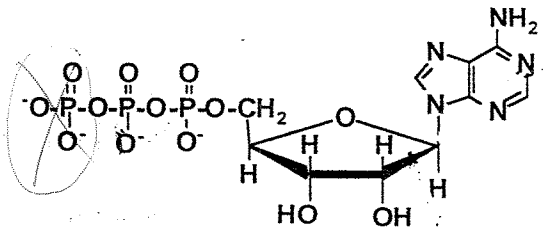
Please show work on all questions for partial credit even on questions which do not specify. (50 total pts) Everyone MUST answer the first question. The remaining 3 questions are all worth 10 points. Any correct answer in excess of the 50 total points will be EXTRA CREDIT.

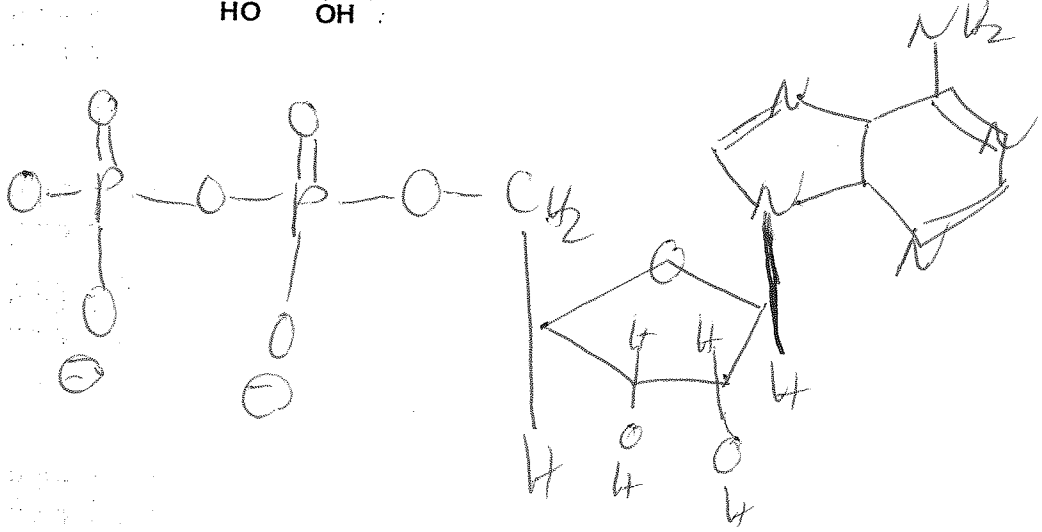
1. Given the following genetic sequence, give the sequence of amino acids using the full name of the amino acid. (30 pts)

AUGUAUGGAGAAGUAUGA

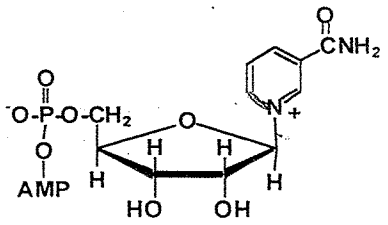


2. Given the following structure of ATP, show the structure of ADP. (10 pts)

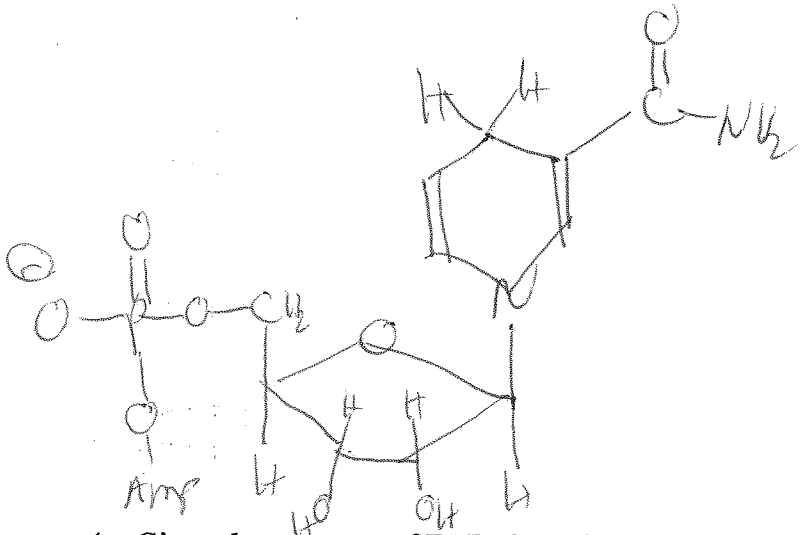




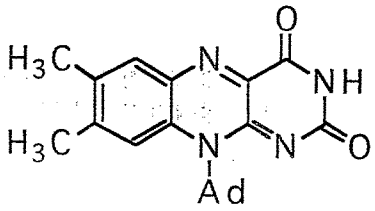
3. Given the structure of NAD+, show the structure of NADH in the following reaction (10 pts)



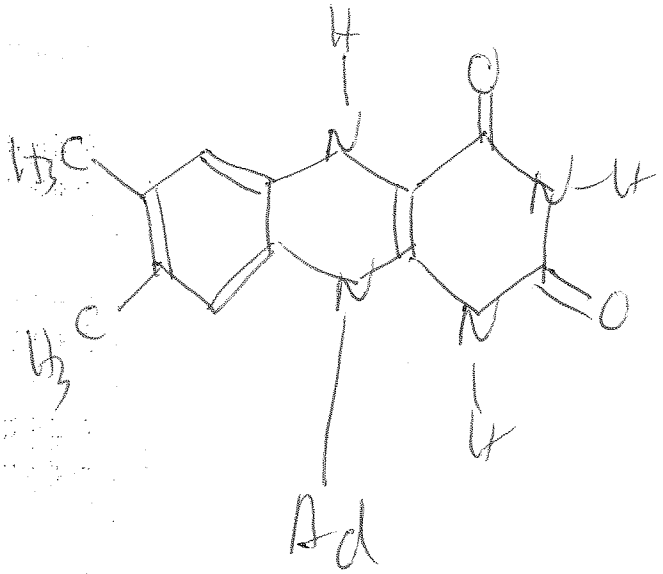
+ H^+ + 2 electrons →



4. Given the structure of FAD show the structure of the product FADH2 given the following reaction. (10 pts)



+ $2H^+$ + $2e^-$ ⇌



Biochemistry BIO/CHM 338 Fall 16 Dr. Hahn MW am Quiz III 11/9W Exam # _____

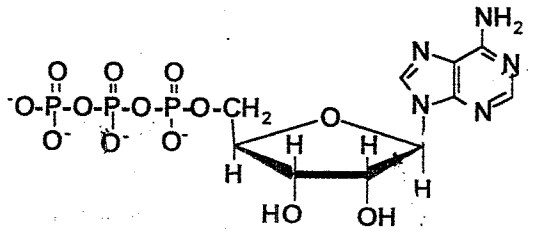
Sign Name _____ Print Name _____

Please show work on all questions for partial credit even on questions which do not specify. (50 total pts) Everyone MUST answer the first question. The remaining 3 questions are all worth 10 points. Any correct answer in excess of the 50 total points will be EXTRA CREDIT.

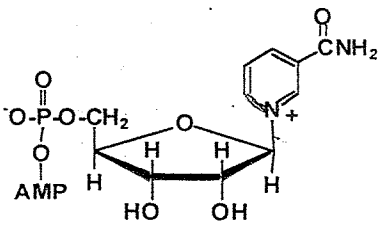
1. Given the following genetic sequence, give the sequence of amino acids using the full name of the amino acid. (30 pts)

AUGUAUGGAGAAGUAUGA

2. Given the following structure of ATP, show the structure of ADP. (10 pts)

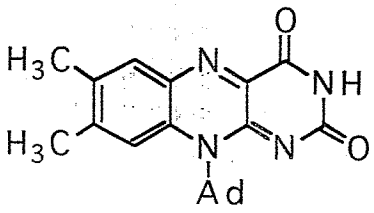


3. Given the structure of NAD+, show the structure of NADH in the following reaction (10 pts)



+ H^+ + 2 electrons →

4. Given the structure of FAD show the structure of the product FADH2 given the following reaction. (10 pts)



+ $2H^+$ + $2e^-$ ⇌