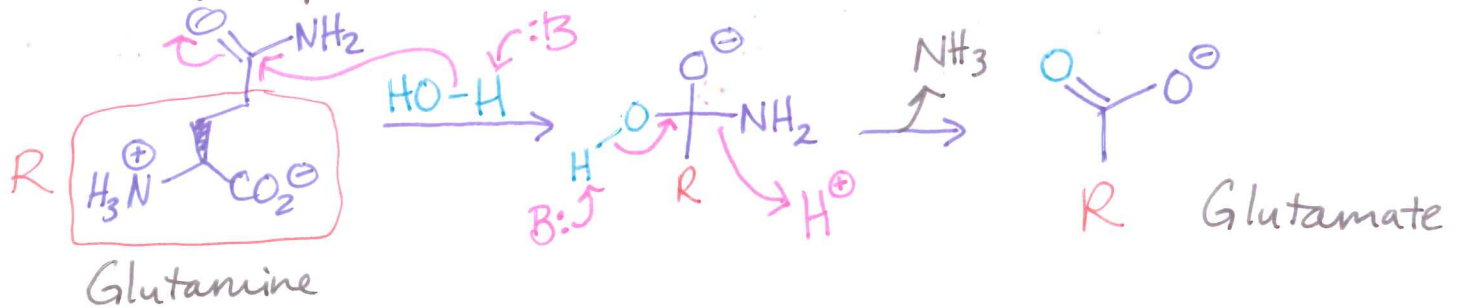


Lecture 5 HW Key

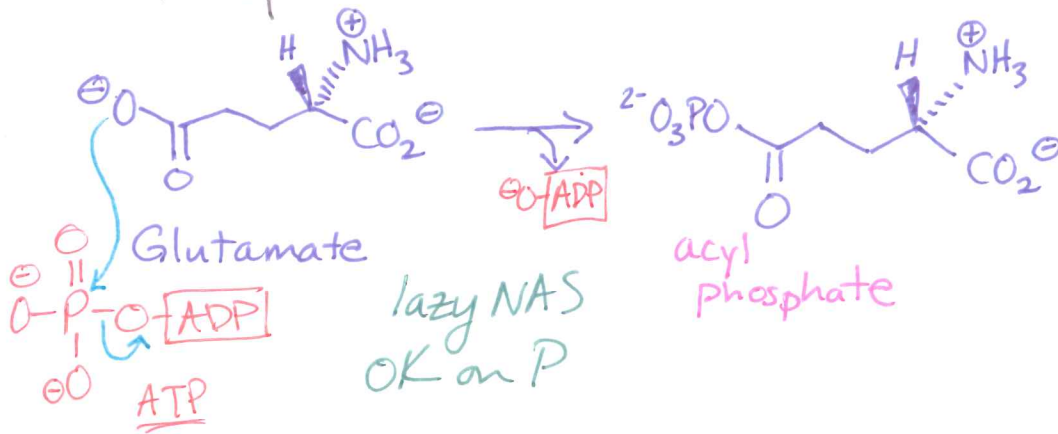
L5
HW
Key
PI

* Compare to your analogous lecture 5 notes before depending on the key!

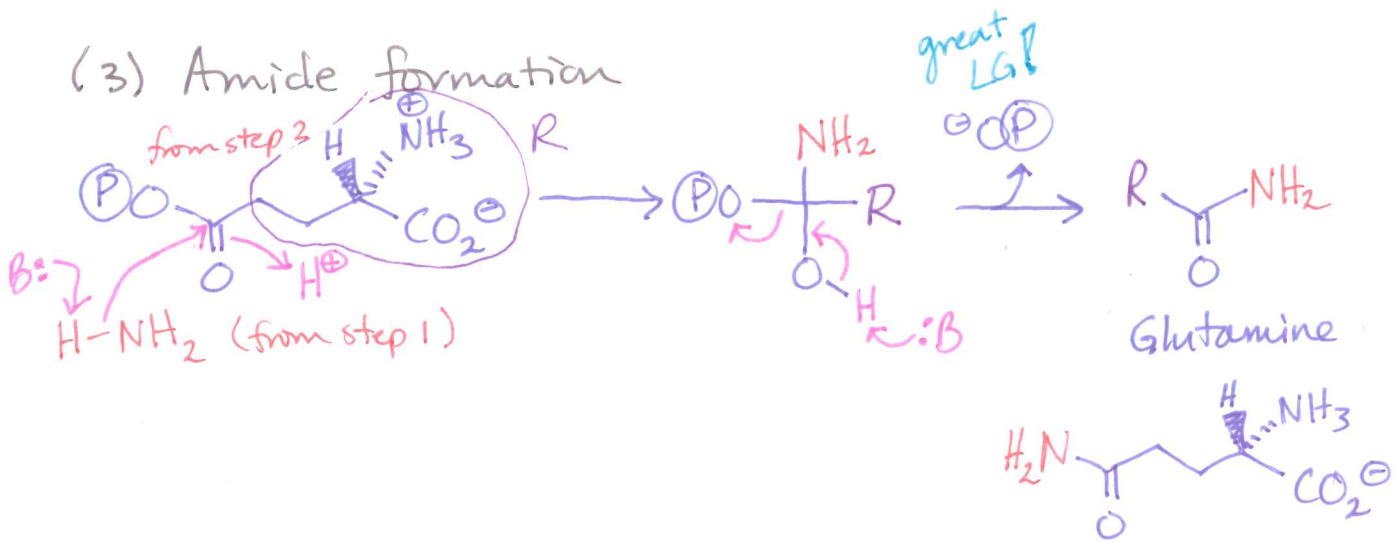
① (1) Hydrolysis of Glutamine



(2) Phosphate transfer with ATP



(3) Amide formation

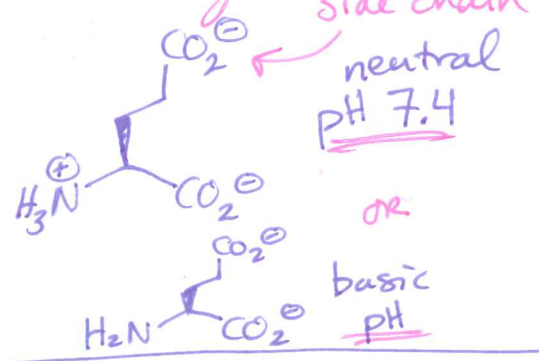


② → Key in lecture notes!

③ You're on your own - go fish!
Ask in discussion/office hours

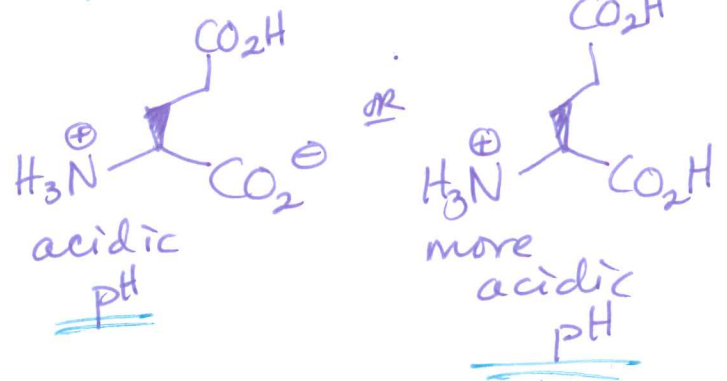
⑤ Glutamate

deprotonated
carboxylic acid
side chain

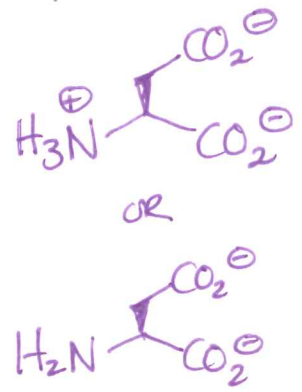


Glutamic Acid

protonated



Aspartate



deprotonated
side chain

@ neutral or basic
cond's

Aspartic Acid



protonated
side chain
@ acidic cond's