

Aminoacids and Peptides, Problem Set #10

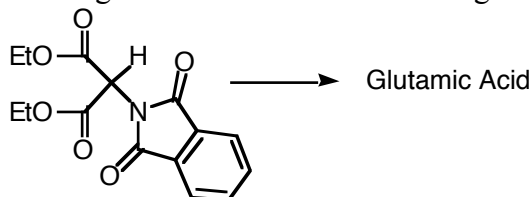
Not due

Read Chapter 26

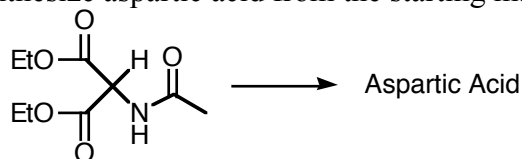
Exercises:❖ McMurry 5th Ed Problems Ch.26: 26.35, 26.36, 26.37, 26.38, 26.39, 26.48, 26.51,

❖ Additional Problems:

- How many stereoisomers are there of threonine? How about serine?
- Would it be better to synthesize valine from an amidomalonate synthesis or a Strecker synthesis? Why?
- Show how you would synthesize glutamic acid from the starting material below.



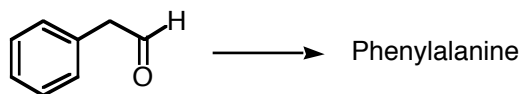
- Show how you would synthesize aspartic acid from the starting material below.



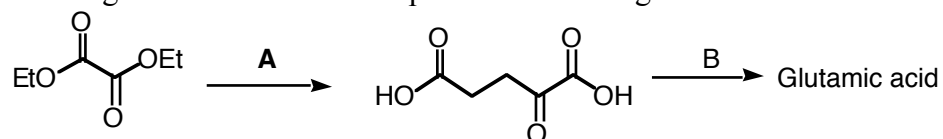
- Show how you would synthesize the following tri-peptide with unprotected aminoacids as the starting material.



- Show the mechanism of how you would synthesize phenylalanine from the starting materials shown.



- What are the reagents A and B to accomplish the following transformation?



- What is the purple compound? Write a mechanism for its formation.

