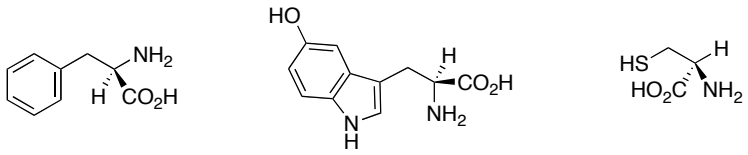
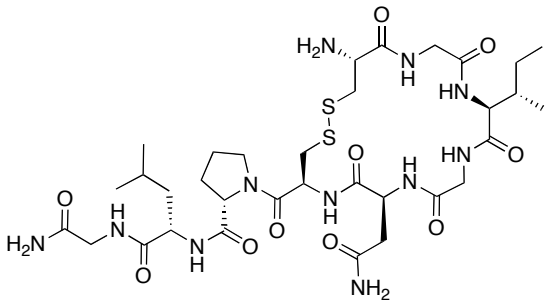
1 a) Determine the stereochemistry of the amino acids below
b) Draw the amino acids as Fischer projections and determine if they are D or L.



2. The hormonal peptide oxytocin has the structure shown below.



(a) Identify the amino acid in oxytocin.
(b) Write out the sequence of oxytocin

3. List the chemicals (including derivatized resin, activating, deprotecting reagents, and protected amino acids) that would be needed in order to synthesize each of the following peptides using solid-phase methodology:

(a) Ala-Pro-Gly
(b) Leu-Lys-Phe-NH_2
(c) Glu-His-Ser

4. Draw the structure of the peptides in question 3, showing their stereochemistry.

5. Outline a synthesis of the following cyclic peptide.