1. Please draw the structure of tetrapeptide Ala-Tyr-Cys-Asn: (5) The net charge of this tetrapeptide at pH =7 is __________ (1)

2. For amino acids with neutral R groups, at any pH below the pI of the amino acid, the population of amino acids in solution will have: ______
   (a) a net negative charge.  (b) a net positive charge.  (c) no net charge.

3. Which tripeptide has the highest UV absorbance at 280 nm? ______ why?_____
   (a) Asp-Glu-Tyr   (b) Ser-Phe-Thr   (c) Trp-Lys-Arg

4. Which tripeptide will have a net positive charge in a pH 7.0 buffer? ____________
   (a) Asp-Glu-Tyr   (b) Ser-Phe-Thr   (c) Trp-Lys-Arg