Assignment for Week-11

- Q1. Partially folded states of proteins can be characterized by using:
 - a. Thioflavin-T
 - b. 8-anilino-1-naphthalene sulfonic acid
 - c. Phenophthalein
 - d. Methyl red
- Q2. Concanavalin A is a dimer at pH and tetramer at pH, respectively
 - a. 6 and 7.4
 - b. 6 and 2
 - c. 6 and 14
 - d. 2 and 7.4
- Q3. Molten globule state of a protein is characterized by
 - a. Intact tertiary structure
 - b. Intact secondary and tertiary structures
 - c. Disrupted secondary and tertiary structures
 - d. Intact secondary structure but disrupted tertiary structure.
- Q4. ANS binds more favorably to the partially folded state due to more availability of
 - a. clusters of nonpolar residues on the protein
 - b. clusters of polar residues on protein
 - c. structural modifications in ANS
 - d. electrostatic interactions amongst protein and ANS
- Q5. The compounds/conditions that generate partially folded states in a protein are
 - a. Guanidine hydrochloride
 - b. Urea
 - c. Alcohols
 - d. heat
- Q6. The wavelength range (in nm) for Far UV-CD measurements is
 - a. 400-700
 - b. 400-4000
 - c. 250-350
 - d. 180-250
- Q7. The Near UV-CD is dominated by the presence of
 - a. Tyrosine, tryptophan, phenylalanine
 - b. Tryptophan, lysine, phenol
 - c. Phenylalanine, serine, methionine
 - d. Glycine, Tyrosine, Glutamine

Q8. The negative band in CD for an α -helix in a protein is observed mainly at:

- a. 222 nm and 208 nm
- b. 210 nm and 195 nm
- c. 250 nm and 230 nm
- d. 190 nm and 290 nm

Q9. CD measures the difference between the absorption of left and right handed

- a. circularly-polarized light
- b. Plane polarized light
- c. Monochromatic light source
- d. Unpolarised light

Q10. The molten globule state of a protein may not show an endotherm in a DSC experiment because of

- a. Absence of tryptophan residues
- b. Disruption of hydrogen bonds
- c. Absence of tertiary structure
- d. Enhanced secondary structure