

Student name: .....

Academic ID number: .....

**I/ Answer the following statements with True or False and correct the false one:**

1. In differential centrifugation technique the heaviest organelle pellet in short time and with low speed. ( )
2. Estimation of protein concentration by colorimetric methods is depending on the absorbance of the colored product of U.V light. ( )
3. All amino acids give a purple positive result with biuret. ( )

**2/ Choose the correct statement:**

1. Spectroscopic method to determine protein concentration
  - a) Biuret method.
  - b) A280/A260 method.
  - c) Bradford method.
2. Salting out:
  - a) High protein–protein interaction.
  - b) High protein–solvent interaction.
  - c) Low protein–protein interaction.
3. Dialysis technique:
  - a) Removal of salt molecules from a protein solution.
  - b) Separate DNA from protein.
  - c) Precipitates the protein.
4. Ammonium Sulphate:
  - a) Safe on most of proteins.
  - b) Low soluble in water.
  - c) Sensitive to temperature effect.

3/ Matching each term in the column A to the appropriate phrase in column B:

A		B
1- Differential centrifugation.		Lactate dehydrogenase
2- Salting out.		Subcellular isolation
3- Dialysis.		Rupture the cell membranes
4- Cytosol (cytoplasm).		Increase protein solubility
5- Biuret		Rupture the organelle membranes
6- Tissue homogenization		Desalting proteins
		Protein precipitation
		Acid phosphatase
		Protein estimation