

## QUIZ -4

1. In a typical eukaryotic cell, histones and DNA exist in a \_\_\_\_\_ mass ratio
  - a) 1:1
  - b) 1:147
  - c) 147:1
  - d) 1:200
2. All are basic amino acids except:
  - a) Arginine
  - b) Histidine
  - c) Tyrosine
  - d) Lysine.
3. Trypsin predominantly cleaves peptide chains at the **carboxyl side** of the amino acids:
  - a) lysine and alanine
  - b) arginine and lysine
  - c) lysine and arginine
  - d) arginine and histidine
4. The externalisation of the following phospholipid in plasma membrane is the hallmark of apoptosis signal:
  - a) Phosphatidyl inositol
  - b) Phosphatidyl serine
  - c) Phosphatidyl ethanolamine,
  - d) Phosphatidyl choline
5. The odd one among the four is:
  - a) Co-immunoprecipitation
  - b) Fluorescence resonance energy transfer
  - c) Fluorescence recovery after photobleaching
  - d) Yeast two-hybrid system.
6. The co-factors for hexokinase, carbonic anhydrase and Vitamin B<sub>12</sub> are:
  - a) Magnesium, cobalt and calcium
  - b) Manganese, zinc and cobalt
  - c) Magnesium, zinc and cobalt
  - d) Calcium, zinc and cobalt
7. The following amino acid contains indole functional group:
  - a) Tyrosine
  - b) Tryptophan
  - c) Arginine
  - d) Histidine
8. If the molecular weight of a compound is 100, how many grams of the compound are needed to make 1Litre solution of 1 Molarity?
  - a) 1g
  - b) 10 g
  - c) 100 g
  - d) 1000 g

9. The odd one among the following is:

- a) Macrophages
- b) Monocytes
- c) Dendritic cells
- d) B cells

10. The correct order of increasing bond energies are:

- a) Vander waal's bond < hydrogen bond < electrostatic bond < covalent bond
- b) Hydrogen bond < Vander waal's bond < electrostatic bond < covalent bond
- c) Vander waal's bond < electrostatic bond < hydrogen bond < covalent bond
- d) Electrostatic bond < Vander waal's bond < hydrogen bond < covalent bond