

B.Sc. (BBZ) 1ST SEMESTER
DEPARTMENT OF LIFE SCIENCES AND BIOTECHNOLOGY
C.S.J.M. UNIVERSITY, KANPUR.
Fundamentals of Biochemistry (B110101T)

Semester: 1st (Odd Sem)

Year: 2022 -23

Quiz

Time: 0.5 h

Maximum marks: 10

All questions are compulsory

1. Some proteins contain additional amino acids that arise by modification of an amino acid already present in a peptide, examples include
 - a) 4 -hydroxy proline
 - b) 5- hydroxy Lysine
 - c) Gamma Amino Butyric Acid
 - d) All of the above
2. Choose the incorrect statement out of the followings
 - a) Only L amino acids are found in the biological system
 - b) Glycine is optical inactive
 - c) Tyrosine is a modified amino acid
 - d) Seleno cysteine is 21 st amino acid
3. Which out of the following amino acids carries a net positive charge at the physiological p H ?
 - a) Valine
 - b) Leucine
 - c) Isoleucine
 - d) None of the followings
4. All of the below mentioned amino acids can participate in hydrogen bonding except one
 - a) Serine
 - b) Cysteine
 - c) Threonine
 - d) Valine
1. Which out of the followings is not a fibrous protein?
 - a)Carbonic anhydrase
 - b) Collagen
 - c) Fibrinogen
 - d) Keratin
2. Which of the characteristics below apply to amino acid Glycine?
 - a) Optically inactive
 - b) Hydrophilic, basic and charged
 - c) Hydrophobic
 - d) Hydrophilic, acidic and charged
3. Choose the correct category for milk protein casein out of the followings
 - a)Nucleoprotein
 - b) Phospho protein
 - c) Lipoprotein
 - d) Glycoprotein
4. Which of the following amino acids is most compatible with an α - helical structure?
 - a)Tryptophan
 - b) Alanine
 - c) Leucine
 - d) Proline
5. The fats and oils are respectively rich in
 - a) Unsaturated fatty acids
 - b) Saturated fatty acids
 - c) Saturated and unsaturated fatty acids
 - d) None of these

6. Essential fatty acids are
 - a) Linoleic acid
 - b) Arachidonic acid
 - c) Linolenic acid
 - d) All of these
7. Glycosphingolipids are a combination of
 - a) Ceramide with one or more sugar residues
 - b) Glycerol with galactose
 - c) Sphingosine with galactose
 - d) Sphingosine with phosphoric acid
8. The importance of phospholipids as constituents of cell membrane is because they possess
 - a) Fatty acids
 - b) Both polar and nonpolar groups
 - c) Glycerol
 - d) Phosphoric acid
9. Gangliosides are complex glycosphingolipids found in
 - a) Liver
 - b) Brain
 - c) Kidney
 - d) Muscle
10. Greater number of carbon atoms in the chain results in higher
 - a) melting point
 - b) boiling point
 - c) freezing point
 - d) stability