

GURUDAS COLLEGE
DEPARTMENT OF BIOCHEMISTRY
INTERNAL ASSESSMENT-2020
Semester-I Hons.
PAPER- CC1 (SET- B)

Total Marks-10

1. Glucose and mannose are epimers. This means that
 - (a) they are mirror images of each other
 - (b) one is an aldose and the other is ketose
 - (c) they rotate the plane polarized light in opposite direction
 - (d) they differ only in the configuration of one carbon atom

2. Which of the following statements best characterized glucose?
 - (a) it usually exist in furanose form
 - (b) it is a ketose
 - (c) carbon 2 is the anomeric carbon
 - (d) it forms part of the disaccharide sucrose

3. Which is not true about monosaccharides?
 - (a) colorless
 - (b) soluble in water
 - (c) sweet in taste
 - (d) soluble in nonpolar solvents

4. The amino acids in hemoglobin (or any protein) uniformly have which of the following configurations?
 - (a) L
 - (b) R
 - (c) S
 - (d) D

5. Which of the following properties of a protein is least likely to be affected by changes in pH?
 - (a) Tertiary structure
 - (b) Primary structure
 - (c) Secondary structure
 - (d) Net charge

6. The alpha helix is an example of which of the following structural properties of proteins?
 - (a) secondary structure
 - (b) quaternary structure
 - (c) primary structure
 - (d) tertiary structure

7. Which of the following information is responsible to specify the three-dimensional shape of a protein?
 - (a) The protein's peptide bond
 - (b) The protein's amino acid sequence
 - (c) The protein's interaction with other polypeptides
 - (d) The protein's interaction with molecular chaperons

8. Which is not a component of a phospholipid
 - (a) Glycerol
 - (b) Fatty acids
 - (c) Deoxyribose
 - (d) Phosphate group

9. Choose the monounsaturated fatty acid
 - (a) Oleic acid
 - (b) Linoleic acid
 - (c) Linolenic acid
 - (d) Stearic acid

10. According to Chargaff's rule, in a DNA molecule
 - (a) The amount of adenine and thymine is equal to the amount of guanine and cytosine
 - (b) The amount of adenine and guanine is equal to the amount of thymine and cytosine
 - (c) The amount of adenine and uracil is equal to the amount of guanine and cytosine
 - (d) The amount of adenine and guanine is equal to the amount of uracil and cytosine