Biomolecules

- 1. Which sugar is present in RNA?
- (a) Glucose
- (b) Fructose
- (c) D-Ribose
- (d) D-2-Deoxyribose

Answer:(d) D-2-Deoxyribose

- 2.Glucose reacts with hydroxylamine to form an oxime. This confirms the presence of
- (a) straight chain of six carbon atoms
- (b) carbonyl group
- (c) primary alcoholic group
- (d) secondary alcoholic group

Answer:(b) carbonyl group

- 3. Which of the following amino acid is neutral?
- (a) Aspartic acid
- (b) Glycine
- (c) Lysine
- (d) Arginine

Answer:(b) Glycine

- 4. The symbols D and L in the name of Carbohydrate represents
- (a) Dextro rotatory nature
- (b) Laevo rotatory nature
- (c) The relative configuration of a particular isomer
- (d) The optical activity of compounds

Answer:(c) The relative configuration of a particular isomer

- 5. Vitamin A is
- (a) Retinol
- (b) Ascorbic acid
- (c) Thiamine
- (d) Calciferol

Answer:(a) Retinol

- 6. Which of the following is/are example(s) of denaturation of protein?
- (a) Coagulation of egg white
- (b) Curding of milk
- (c) Clotting of blood
- (d) Both (a) and (b)

Answer:(d) Both (a) and (b)

7. The reagent used for obtaining osazone derivatives of fructose is (a) NH₂OH (b) NH₂-NH₂ (c) NH₂-NHC₆H₅ (d) 2,4-DNP Answer:(c)NH₂-NHC₆H₅ 8. Nucleotides are joined together by (a) Glycosidic linkage (b) Peptide linkage (c) Hydrogen bonding (d) Phosphodiester linkage Answer:(d) Phosphodiester linkage 9.A secondary structure of protein is stabilized by (a) H-bond (b) peptide bond (c) ionic bond (d) disulphide bond Answer:(a) H-bond 10. Scurvy is caused due to deficiency of (a) Vitamin B1 (b) Vitamin B2 (c) Ascorbic acid (d) Glutamic acid Answer:(c) Ascorbic acid 11. How many amino acids are present in insulin? (a) 25 (b) 20 (c) 51 (d) 52 Answer: (c) 51 12. Which of the following reagents does not react with glucose? (a) NH₂OH (b) HCN (c) 2,4-DNP reagent (d) Br₂ water Answer:(c) 2,4-DNP reagent 13. Which among the following is a water-soluble vitamin? (a) Vitamin C (b) Vitamin D (c) Vitamin A (d) Vitamin E

Answer:(a) Vitamin C

- 14. What are the hydrolysis products of lactose?
- (a) β –D-galactose and β –D-Glucose
- (b) α –D-Glucose and α –D-Glucose
- (c) α –D-Glucose and β –D-Fructose
- (d) None of these

Answer:(a) β -D-galactose and β -D-Glucose

- 15. Which of the following is incorrect for glucose?
- (a) It contains four >CHOH groups
- (b) It contains one -CH2OH group
- (c) It contains one –CHO group
- (d) It contains one >C=O group

Answer:(d) It contains one >C=O group