

Class : XIth
Date :

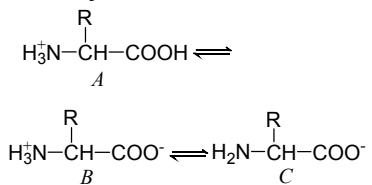
Subject : BIOLOGY
DPP No. : 10

Topic :- Biomolecules

- The 'Repeating unit' of glycogen is
a) Fructose b) Mannose c) Glucose d) Galactose
- Every chemical (metabolic) reaction is a ... reaction
a) Induced b) Reversible c) Catalysed d) Spontaneous
- Which of the following secondary metabolites are used as drugs?
a) Vinblastin and curcumin b) Anthocyanin
c) Gums and cellulose d) Abrin and ricin
- Enzymes are most functional at the temperature range of
a) 15° – 25°C b) 20° – 30°C c) 30° – 50°C d) 50° – 60°C
- One of the major feature of metabolic reaction is that they are...
a) Elementary reactions
b) Non-linked reactions
c) Heat evolving reactions
d) Catalysed reactions
- Which of these is not a ketone body?
a) Acetoacetic acid b) Acetone
c) Succinic acid d) Betahydroxy butyric acid
- Which of the following is not a cell inclusion?
a) Protein b) Carbohydrate c) Pigment d) Vacuole
- Which of the following is incorrect?
a) In cellular organisms, DNA is genetic material
c) Cytidine is nucleoside b) Adenylic acid is nucleoside
d) N-bases (A, G, C, T, U) have heterocyclic rings

9. Identify whether the given conditions are anabolic or catabolic
 I. Glucose → Lactic acid
 II. Amino acids → Proteins
 a) I-catabolic; II-catabolic
 b) I-anabolic; II-catabolic
 c) I-catabolic; II-anabolic
 d) I-catabolic; II-catabolic
10. Choose the correct statement
 a) The living state is a non-equilibrium steady state to be able to perform work
 b) The constant flow of material for energy in and out of cell prevent the cell from reaching equilibrium
 c) Living state and metabolism are synonyms
 d) All are correct
11. Pick out the wrong statement
 a) Amino acids are substituted methanes
 b) Glycerol is a trihydroxy propane
 c) Lysine is a neutral amino acid
 d) Lecithin is a phospholipid
12. Each active sites in enzyme is bounded by how many amino acids?
 a) 20
 b) Infinite
 c) 3
 d) None of these
13. Select the wrong statement
 a) Proteins are heteropolymers made of amino acids
 b) Ribozymes are nucleic acids with catalytic power
 c) Nucleic acids serve as genetic material
 d) Collagen is the most abundant protein in the whole of the biosphere and Rubisco is the most abundant proteins in animal world
14. The simple polyhydroxy ketone molecule containing 3-7 carbons is a
 a) Disaccharide
 b) Monosaccharide
 c) Polysaccharide
 d) Dipeptide
15. Primary structure of proteins is due to the presence of
 a) Peptide bond
 b) Covalent bond
 c) Disulphide bond
 d) Ionic bonds

16. Identify the zwitterionic form in the given reversible reaction



Choose the correct option

- a) A is the zwitterionic form
 - b) C is the zwitterionic form
 - c) B is the zwitterionic form
 - d) None of the above
17. Removal of amino group from an amino acid is known as
- a) Deamination
 - b) Excretion
 - c) Amination
 - d) Egestion
18. The tightly bound non-proteinaceous organic compound in enzyme, is
- a) Coenzyme
 - b) Prosthetic group
 - c) Cofactor
 - d) Apoenzyme
19. Why living state cannot afford to reach equilibrium?
- a) Due to insufficiency of biomolecules
 - b) To remain active all the time
 - c) To save the energy
 - d) None of the above
20. Chemical compounds that have molecular weights less than one thousand dalton are usually referred to as
- a) Biomolecules
 - b) Micromolecules
 - c) Macromolecules
 - d) Both (a) and (b)