



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



## WORK SHEET – 1 (solutions)

Sub: LIFE SCIENCES

Class: IX

F. M.: 1X15

Topic: Biomolecules: Carbohydrates and Proteins Date: 07.04.2020

**A) Choose the correct option: (1x15=15)**

1. Which atom is the integral part of all organic molecules:

- a) Helium b) Carbon c) Phosphorus d) Selenium

**Answer : Carbon (b)**

2. Which of these is not a macronutrient:

- a) Ca b) S c) Mo d) C

**Answer : Mo (c)**

3. The ratio of Hydrogen and Oxygen in carbohydrates is:

- a) 2:1 b) 1:2 c) 2:3 d) 3:1

**Answer : 2:1 (a)**

4. Amino acids are chemically made up of the following :

- a) C,H,K,Ca,O b) C,H,K,P,Zn c) C,H,O,N,S d) C,P,Cu, Zn,H

**Answer : C,H,O,N,S (c)**

5. The five carbon sugar present in DNA is :

- a) Ribose b) Erythrose c) Deoxyribose d) Cellulose

**Answer : Deoxyribose (c)**

6. Which of these is a macromolecule:

- a) Polysaccharide b) Lipids c) proteins d) all of these

**Answer : All of these (d)**

7. Which of these is an essential amino acids:

- a) Proline b) Glutamic acid c) Tyrosine d) Methionine

**Answer :Methionine (d)**

8. Glycoside bond is found in :

- a) Protein b) Oligosaccharides c) Monosaccharides d) Lipids

**Answer : Oligosaccharides (b)**

9. Proteins are involved in the following functions:

- a) Structural support b) Bodily movement c) Defense d) All of these

**Answer : All of these (d)**

10. Chief chemical component of all hormones (excepting steroid hormones):

- a) Lipids b) Proteins c) Carbohydrates d) Vitamins

**Answer : Proteins (b)**

11. Proteins that help the body to fight infection:

- a) Antibody b) Enzyme c) Hormone d) None of these

**Answer : Antibody (a)**

12. Universal solvent is :

- a) Water b) Oil c) Alcohol d) Acid

**Answer : Water (a)**

13. In a polypeptide , amino acids are connected by -

- a) Glycosidic bond b) Peptide bond c) Disulphide bond d) Hydrogen bond

**Answer : Peptide bond (b)**

14. Acids and bases react to form :

- a) Salt b) Water c) Double salt d) fatty acids

**Answer : Salt (a)**

15. Which of the following is nucleic acid:

- a) RNA b) DNA c) Lactic acid d) Both (a) and (b)

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

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