**ILMI BLOG.COM FSC 1ST YEAR BIOLOGY CHAPTER 2 TEST**

**STUDENT NAME-------------------------- ROLL # ------------------------------- DATE: / /**

**Class 1 year Chapter 2 T. Marks: 40 Subject Chemistry Time 45 min Obtain marks------------------**

**Q # 1 encircle the correct option 1\*10=10**

1. Insulin chain are held together by: A) Hydrogen Bond B) Hydrophobic interaction C) Disulfide bridge D) Ionic Bond
2. Hemoglobin consist of ------chains: A) 7 B) 2 C) 3 D) 4
3. In each of turn of helix ---- amino acid are present: A) 10 B) 3.6 C) 27 D) 20
4. Nitrogenous base is attached to which carbon number of ribose: A) 1 B) 2 C) 3 D) 5
5. Deoxyribose contain an oxygen removed from OH group at carbon number: A) 1 B) 2 C) 3 D) 4
6. Cutin is a / an : A) Protein B) Carbohydrates C) Lipids D) None
7. General formula of carbohydrates is: A) Cx(H2O)y B) Cx(HO)y C) Cx(H2O2)y D) None
8. Heat of vaporization is expressed as calories absorbed per ------ vaporized: A) Milligram B) Gram C) Kilogram D) May be all
9. Percentage of water varies from --- to ----- in different organisms: A) 69-85 B) 56-98 C) 65-89 D) 56-86
10. Raw material used in photosynthesis is: A) CO2 B) H2O C) O2 D) C6H12O6

**Q # 2: Short Question 10 \* 2= 20**

1. Define biochemistry with example.
2. Write chemical composition of bacterial and mammalian cell.
3. Differentiate between catabolism and anabolism.
4. Write name of given resources of carbohydrates.
5. Why lipid store double amount of energy than carbohydrates?
6. Write function of protein.
7. Differentiate between purines and pyrimidines.
8. Define nucleoside.
9. What is peptide bond and draw structural formula of gyloyalanine?
10. Draw structure of ATP.

**Q # 3 Long Questions 2\* 5 =10**

1. Explain importance of water.
2. Explain structure of protein.