

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-1 EXAMINATION- September -2017

B. Tech (1st Semester) Bioinformatics

COURSE CODE: 13B11BI112

MAX. MARKS: 15

COURSE NAME: Cell and Molecular Biology

COURSE CREDITS: 04

MAX. TIME: 1 HR

Note: All questions are compulsory. Carrying of mobile phone during examination will be treated as case of unfair means. Marks are indicated below each question

1. What is carbohydrate? Discuss types of carbohydrate with examples and their function in a cell? (3)
 2. What is protein? What are different protein structures and their function in a cell? Write on Insulin with respect to its composition? (3)
 3. Draw the steps involved in glycolysis process with name of the enzyme at each step? (3)
 4. What are the major differences between a prokaryotic and eukaryotic cell, discuss with example? (2)
 5. Write on the different cell component in percentage present in a typical cell? (2)
 6. Two amino acids are bonded by peptide bond; draw the peptide bond between two Glycine amino acids? (1)
 7. Draw the glycosidic bond between glucose molecules in maltose disaccharide? (1)
 8. Different types Bacteria are classified on the basis of shape, what are they and give example for each?
-