

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- September-2017

B.Tech I<sup>ST</sup> Semester

COURSE CODE: 13B11BT112

MAX. MARKS: 15

COURSE NAME: CELL BIOLOGY

COURSE CREDITS: 04

MAX. TIME: 1 Hr

*Note: All questions are compulsory. Marks are indicated in square bracket against each question. Carrying of mobile phone during examinations will be treated as case of unfair means.*

1. What is the function of Endoplasmic Reticulum and Golgi Apparatus in a eukaryotic cell. [2 Marks]
2. Differentiate Prokaryotes Vs Eukaryotes. [2 Marks]
3. What is the functional role of polysaccharides in living system? Explain with example. [2 Marks]
4. Explain the relationship between catabolic and anabolic pathways in metabolism. [2 Marks]
5. Photosynthesis and respiration are complementary processes. Explain. [2 Marks]
6. Explain with example a biosynthetic reaction driven by ATP hydrolysis. [2 Marks]
7. What are the anaerobic breakdown products of pyruvate in a muscle cell and yeast? [2 Marks]
8. Name the corresponding activated carrier molecule for phosphate and acetyl group. [1 Mark]