

Dr Udaybhan

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

Test -1, SEPT, EXAMINATION - 2016

B.Tech Ist Semester

COURSE NAME: Cell Biology

MAX.MARKS:15

COURSE CODE: 13B11BT112

MAX.TIME: 1 HR.

COURSE CREDITS: 04

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Note: Carrying of mobile phones during examinations will be treated as a case of unfair means. Give all answers to the point.

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1. What are carrier proteins? Explain its function with a diagram. [2Marks]
2. Define Symporters and antiporters. [2Marks]
3. Changes in a protein are driven by phosphorylation. Explain. [2Marks]
4. What are motor proteins? How motor proteins power intracellular movements? [2Marks]
5. What are protein domains? Explain with an example. [2Marks]
6. How proteins could be separated? List few methods and its principle in short. [2Marks]
7. Can  $\text{Na}^+$  driven carrier proteins in the plasma membrane regulate cytosolic pH? Explain. [3Marks]