

**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT**  
**TEST 1, Examination, September 2015**  
**B.Tech I Semester**

COURSE CODE: 13B11BT112  
\* COURSE NAME: Cell Biology  
COURSE CREDIT: 04

MAX. MARKS: 15

MAX. TIME: 1HR

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*Note: All questions are compulsory*

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1. Diagrammatically show the alpha helix and beta sheet folding patterns of protein. 2 Marks
2. Name few positively and negatively charged amino acids. 2 Marks
3. Hexokinase adds a phosphate group to d-glucose but ignores its optical isomer l-glucose.  
True or false. 1 Marks
4. What is the function of chaperones? 1 Mark
5. Changes in proteins are driven by phosphorylation. Explain. 3 Marks
6. What are polymerases and kinases? 2 Marks
7. Name the coenzymes related to Niacin and Riboflavin. 1 Mark
8. How will you separate protein? Name few methods. 2 Marks
9. A polyunsaturated fatty acid has a hard physical property. True or false. 1 Mark