JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST-2 EXAMINATION OCTOBER 2018

B.Tech 1st Semester

COURSE CODE: 18B11BT111

COURSE NAME: Fundamental Biology

COURSE CREDITS: 03

MAX. MARKS: 25

MAX. TIME: 1HR 30 MIN

Abhirk

Note: All questions are compulsory. Carrying mobile phone during examinations will be treated as a case of unfair means.

- 1. How do you explain the presence of an aldehydic group in glucose molecule? [2] [CO-2]
- 2. Who gave five kingdom classifications? Name the five kingdoms of living organism? [3] [CO-1]
- 3. What are glycosidic linkages? In which type of bio-molecules are they present? [3] [CO-2]
- 4. Classify lipid with suitable example [5] [CO-2]
- 5. Write the name of amino acid having [2] [CO-2]
 - (a) Net negative charge at physiologic pH
 - (b) Net positive charge at physiologic pH
- 6. Draw the structure of following amino acids [4] [CO2]
 - (a) Proline (b) Cysteine (C) Aspartic acid (d) Glycine
- 7. Write down the difference between eukaryotic and prokaryotic cells [2] [CO-1]
- 8. Who proposed the cell theory and what does it state? [2] [CO-3]
- 9. Write down the possible difference between gram positive and gram negative bacteria [2] [CO-3]