

Dr. Abhishek

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- February 2019

B.Tech/ M.Tech VIII Semester

COURSE CODE: L-11BIWBT840

MAX. MARKS: 15

COURSE NAME: Nano-Biotechnology

COURSE CREDITS: 3

MAX. TIME: 1Hr

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

Part A: Answer the following Questions.

1. Calculate the number of sugar molecule present in sugar cube of volume 10 cm^3 .
(Volume of 1 sugar molecule = 1 nm^3) [2] [CO- 1]
2. What is ultraviolet catastrophe? [2] [CO- 1]
3. Write a note on Compton Effect [2] [CO- 1]
4. Define avogadro's constant how is it related to mole [2] [CO- 1]
5. Write down the advantages of chemical method of nanoparticles synthesis [2.5] [CO- 2]
6. There is a plenty of room at the bottom." This was stated by [1] [CO- 1]
7. Write a note on the properties of material at nanoscale [2.5] [CO- 2]
8. What is buckyball? [1] [CO- 1]