

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- February 2020

B.Tech VIII Semester

COURSE CODE: L-11B1WBT840

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. Write a note on (a) Lycurgus Cup (b) Deruta ceramicists [2] [CO-1]
2. Write a note on preparation method used by Michal faraday for gold nanoparticles synthesis [2] [CO-1]
3. Explain (a) Crooke dark space (b) Heisenberg's uncertainty principle [3] [CO-1]
4. Write a note on "material properties at nanoscale". [2] [CO-2]
5. If you could paint a 10 ml teaspoon of paint one nanometer thick, how much area would it cover? [2] [CO-1]
6. Answer the following [CO-2]
 - (a) Laser ablation method of nanoparticles synthesis [2]
 - (b) Ultraviolet catastrophe [2]