

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

MAKE-UP EXAMINATION- April 2017

B.Tech/ M.Tech VIII/X Semester

COURSE CODE: L-11B1WBT840

MAX. MARKS: 25

COURSE NAME: Nano-Biotechnology

COURSE CREDITS: 3

MAX. TIME: 1.5Hr

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

Part A: Short Answer Questions (1 mark each).

1. Lycurgus Cup
2. What is the title of famous talk given by Richard P. Feynman at Caltech, 1959
3. Surface Plasmon resonance
4. Who first used the term nanotechnology.
5. What is a Buckyball?

Part B: Answer the following Questions (2.5 mark each).

1. Green synthesis method of nanoparticles synthesis.
2. What is lithography, explain different type of lithography.
3. Top down and Bottom up approach of nanoparticles synthesis.
4. Describe in detail (a) quantum yield (b) stokes shift

Part B: Long Answer Questions (5 marks each).

1. Explain four postulate of quantum mechanics
2. Working principle of Scanning electron microscopy