Roll No:

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -3 EXAMINATION- May 2018

B.Tech VIII Semester

MAX. MARKS: 35 COURSE CODE: L-14B1WBT741 COURSE NAME: Bio-resources and Industrial Product MAX. TIME: 2 Hr **COURSE CREDITS: 3** Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Xxxxxxxxxxxxxxxxxxxxx What is a prodrug? Which components of the morphine molecule are involved in binding to the opioid receptor binding site (4+3)CO-4&2 Compare the SAR activity of Morphene and Heroin Q.1b Draw the structure of lactose and explain what causes a sandy texture in ice Q.2 a (3+3)cream? CO-5&2 Write a note on lactose glass and caking Q.2b What are gums? Write down the pharmaceutical application of Gums. (3+3)Q.3a CO-4&2 Explain in detail "different methods used for structure elucidation of terpenoid" Q.3b What are different constalline form of lactose explain different form with Q.4a (3+2)respect to temperature. CO-5&2 What are Eicosapentaenoic acid and Docosahexaenoic acid? Write down the **Q.4b** possible health benefits of Eicosapentaenoic and Docosahexaenoic acid. What are renewable resources? Why is energy from biomass renewable? (1+2) (1+2)**Q.5** CO-1 Answer the following question. Q.6 (2x4)1. Food preservation by lowering pH **CO-3** The primary sources of microorganisms in food 3. Side effect of probiotics

4. Healthy Microbiome