De. Harish Chan Johtra

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -2 EXAMINATIONS April 2019

B.Tech (Bioinformatics) 1st year

Course Code: 10B11BI411 MAX, MARKS: 25 Course Name: Molecular Genetics Course Credits: 04 Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Marks are indicated in brackets against each question. 1. Discuss followings:-(5)a. Structural features of tRNA b. Chargaff's rules 2. Design and discuss an experiment to prove semi-conservative model of replication. (5)3. Explain followings modes of replication (5) a. theta b. rolling circle 4. Describe rho-independent transcription termination in bacteria. (5) 5. How the lac operon controls lactose metabolism in E. coli? (5)