JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATIONS-2022

B.Tech-IV Semester (BT)

COURSE CODE: 18B11BT413   MAX. MARKS: 15

COURSE NAME: Introduction to Bioinformatics

COURSE CREDITS: 4   MAX. TIME: 1 Hour

Note: *All questions are compulsory. Marks are indicated against each question in square brackets.*

Q1. The final HGP outcome was a mosaic. What do you understand by this statement? **(1 Mark)**

Q2. Does India possess its own central data repository for national biotechnology data? Justify your answer. **(1 Mark)**

Q3. What is India's plan for construction of world's most comprehensive human atlas? **(1 Mark)**

Q4. Which resources will you consult to access DNA sequence information? **(1 Mark)**

Q5. What allows Entrez to explore comprehensive information across NCBI on a particular text query? **(1 Mark)**

Q6. What were limitations of the Human Genome Project which led to a long duration and very high costs to completion? **(2 Marks)**

Q7. What are the revolutionary events in the field of biomedical data generation? **(2 Marks)**

Q8. The 'Central Dogma' is the process by which the instructions in DNA are converted into a functional product. How does it serve as the major source of biomedical information? **(3 Marks)**

Q9. In your opinion, what is the most obvious way of managing and sharing of biomedical information? Give examples of some important resources in support of your answer. **(3 Marks)**