JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

B.Tech-V Semester (BI)

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COURSE CODE(CREDITS): ~~18B1WBI531~~ (3) 25BII BI512 MAX. MARKS: 15

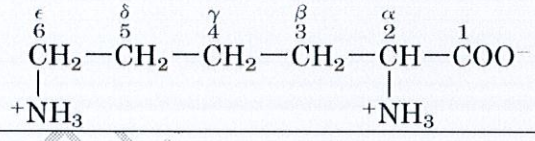
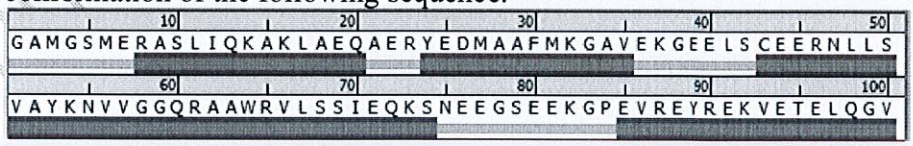
COURSE NAME: Structural Bioinformatics

COURSE INSTRUCTORS: Dr. Raj Kumar MAX. TIME: 1 Hour

Note: *(a) All questions are compulsory.*

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

(c) Use of calculator is not allowed

Q.No	Question	CO	Marks
Q1	In a DNA molecule, A = 20%. What is the total amount of pyrimidines present in the sample?	1	2
Q2	A scientist wants to observe the arrangement of atoms in a biological molecule. Explain why a conventional light microscope would not be suitable for this purpose.	2	2
Q3	Write down the names of amino acids having single letter codes D, N, E, and Q?	1	2
Q4	Why Glycine and proline are regarded as special amino acids?	1	2
Q5	Write down the atom names of the given amino acid: 	2	2
Q6	Calculate the statistical propensities of lecine (L) in the highlighted helix conformation of the following sequence. 	3	5

MID TERM EXAMINATION- AUG-2026

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