

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2025

B.Tech-IV Semester (BI)

COURSE CODE (CREDITS): 18B11BI414 (3)

MAX. MARKS: 15

COURSE NAME: Programming Languages for Bioinformatics

COURSE INSTRUCTORS: Dr. Shikha Mittal

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

Q.No	Question	CO	Marks
Q1	What will be the output of the following Perl code? my \$str = "Hello, world!"; my \$substr = "o"; my \$pos1 = index(\$str, \$substr); my \$pos2 = rindex(\$str, \$substr); print "First occurrence: \$pos1, Last occurrence: \$pos2\n";	[CO-1]	(2)
Q2	Write a Perl program to convert DNA into RNA.	[CO-3]	(3)
Q3	Define Array. Explain push, pop, shift and unshift with an example.	[CO-3]	(4)
Q4	What is die and warn in Perl?	[CO-1]	(2)
Q5	Explain the following – a. How do you take user input in Perl? b. What is the purpose of the chomp function in Perl? c. What is the \$_ variable in Perl? d. List the variables in Perl	[CO-1, CO-3]	(4)