

**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT**

**TEST -1 EXAMINATION- 2024**

**B.Tech-IV Semester (BT/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) Marks are indicated against each question in square brackets.*

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

**Q1. How integer and string variables are declared in Perl? (2 marks) [CO-1]**

**Q2. Write a program to transcribe DNA to RNA and take input from user. (3 marks) [CO-1 & CO3]**

**Q3. In Perl what types of operators are available? (3 marks) [CO-1]**

**Q4. What are the advantages of C over Perl? (2 marks) [CO-1]**

**Q5. What will be the output of the following Perl program – (2 marks) [CO-1 & CO3]**

```
#!/usr/bin/perl
print "Hello, world\n";
print 'Hello, world\n';
```

**Q6. Explain the following with examples (3 marks) [CO-1 & CO3]**

- (a)** Usage of repetition operator in Perl.
- (b)** Chomp operator
- (c)** Comparison operator in strings and integers.