Exam.Code:0044
Sub. Code: 1015

2071
B.Sc. (Hons) Bio-Informatics
Sixth Semester
BIN-6001: Introduction to Perl Programming

Time allowed: 3 Hours Max. Marks: 60

***NOTE:*** *Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.*

*x-x-x*

I. Answer the following:-

a) What is the difference between *for* and *for each* construct in Perl?

b) Differentiate between chop() and chomp() function.

c) Explain grep() function.

d) Enlist file test operators.

e) Expand the term PERL and CPAN.

f) What are Boundary Characters? (6x2)

## UNIT - I

II. a) Compare features of PERL with C and JAVA.

b) What are Scalar Data and Scalar variable? Discuss various Data types in PERL. (6,6)

III. a) What are Control Statements in Perl? Explain with examples iterative constructs.

b) Discuss array functions available in PERL with example. (6,6)

IV. a) Explain the concept of defining and calling subroutines.

b) What are associative arrays? Explain keys, values and each associative array function. (6,6)

## UNIT - II

V. a) Explain pattern matching operators with examples.

b) Write note on Quantifiers. (6,6)

VI. a) Explain the use of modifiers.

b) Write program to demonstrate the use of substr, index and rindex functions. (6,6)

P.T.O.

VII. a) Write a perl script to read the content of a nucleotide sequence text file, count the total number of A,T,G,C and store the result into a new text file.

b) Write a note on CGI. (8,4)