MASTER OF SCIENCE (BIOINFORMATICS) (CBCS-2019 COURSE)
M. Sc. (Bioinformatics) Sem-I : WINTER :- 2021
SUBJECT: PERL PROGRAMMING

Day : Wednesday
Date 9/2/2022

W-21154-2021

Time : 10:00 AM-11:30 AM
Max. Marks: 30

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Answers to both the sections should be written in **SAME** answer book.

SECTION – I

Q.1 Attempt any **FIVE** of the following: **(05)**

a) What is PERL?
b) Which are the data types in PERL?
c) What is Range Operator?
d) What is nested-if statement?
e) Explain array variables.
f) What is PERL identifiers?
g) Advantages of PERL.

Q.2 Answer any **TWO** of the following: **(10)**

a) What is string? How to define a string? Explain its five functions with example.
b) Explain numerical and string relational operators.
c) Write a program to accept an input sequence and then determine whether the given sequence is of a nucleotide or a protein.

SECTION – II

Q.3 Attempt any **FIVE** of the following: **(05)**

a) How to define a subroutine?
b) What is inheritance?
c) Write a syntax to create a file.
d) What is Meta-characters?
e) Define regular expressions.
f) Define referencing in PERL.
g) What is the use of "=~" symbol?

Q.4 Answer any **TWO** of the following: **(10)**

a) Explain regular expression in detail.
b) Write a program to convert DNA sequence into RNA sequence using subroutine.
c) Explain object oriented programming in PERL.

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