

6. (a) Installation and running of PERL in LINUX/Windows environments.
- (b) Write the uses of Hashes in PERL with the help of suitable examples.
7. Explain the uses and functions of different control statements by writing a suitable PERL program. Also highlight the differences between various control statements.
8. Write short notes on the following.
 - (a) Bioperl
 - (b) PERL subroutines and functions.

Exam. Code : 103204
Subject Code: 1309

B.A./B.Sc. 4th Semester
BIOINFORMATICS
(Computer Programming In C++ and Perl)

Time Allowed—2 Hours] [Maximum Marks—75

Note :—There are **eight** questions for equal marks. Candidate are required to attempt any **four** questions.

1. Discuss the differences between procedure-oriented and object-oriented programming paradigms in detail by taking suitable examples.
2. Discuss the various decision making and looping statements of C++ language by taking suitable examples.
3. What do you mean by overloading functions ? Explain function overloading by writing a suitable C++ program.
4. Explain the overloading of unary and binary operators with the help of a C++ program.
5. How I/O functions and File handling is performed in PERL ? Explain with the help of suitable example codes in PERL language.