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Exam. Code: 103204 Subject Code: 1395

### B.A./B.Sc. 4th Semester

#### BIOINFORMATICS

(Computer Programming in C++ & Perl)

Time Allowed—3 Hours]

[Maximum Marks—75

Note:—Section A is compulsory and consists of 10 short answer type questions. Each question in Section A carries 11/2 marks. Section—B, C, D and E will consist of TWO questions each. Students are required to attempt any ONE question from each respective section. Each question in Section B, C, D and E carries 15 marks.

#### SECTION-A

### (Attempt ALL questions.)

- What is the difference between structure and union? 1. (1)
  - What is a derived class in C++? (ii)
  - Write the precedence of operators in C++. (iii)
  - (iv) What is the difference between float and double data type?
  - (v) What is the difference between local and global variable?

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- (vi) What is a virtual function in C++?
- (vii) Name any three versions of PERL.
  - (viii) What are built-in file handlers in PERL?
  - (ix) What are different Meta characters in PERL?
  - (x) Define a function in PERL.  $1\frac{1}{2} \times 10 = 15$

#### SECTION—B

(Attempt any ONE question)

- 2. (a) What is the use of strings in C++? Discuss various operations that can be performed on strings. 8
  - (b) Write a program code in C++ to read a word and rewrite its characters in reverse order.7
- Explain different control and conditional statements of
   C++ language with the help of suitable examples.

## SECTION—C

(Attempt any **ONE** question)

- 4. (a) When will you make a function in-line? Explain with example.
  - (b) Can we have more than one constructor in a class?

    India bull yes, explain with the help of code example. 7

5.	Write a C++ program to show multiple and multilevel			
inheritance. 15				
SECTION—D				
	(Attempt any ONE question)			
6.	a file		read the input string from ents of the file and writing ent file.	
	(b) Writin Li	-	ation procedure of PERL 5	
7.	How PERL language is different from C++ language i			
	terms of data type declaration, loop statements, input- output functions, adding comments, comparison operations,			
	header fil	les etc. ?	15	
SECTION—E				
	(Attempt any ONE question)			
8.			nal and logical statements ample codes in PERL.10	
	(b) Brie	fly explain subroutine	es in PERL. 5	
9.	What is t	at is the role of regular expressions in PERL? How		
	pattern m	atching is done using	g PERL? 15	

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