Exam. Code : 103204 Subject Code: 1362

B.A./B.Sc. Semester—IV

BIOINFORMATICS

(Computer Programming in C++ & Perl)

Time Allowed—3 Hours

[Maximum Marks—75

Note: — Section A is compulsory and consists of 10 short answer questions. Each question in Section A carries one and half 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)

- (i) Write precedence of various operators in C++.
 - (ii) What is a library function in C++?
 - (iii) Define destructor in C++.
 - What is the difference between "cin" and "cout" (iv) statement in C++?
 - Write four examples of application software.

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(Contd.)

(vi) What is Bioperl?

	(viii)	What is a multiple inheritance?
	(ix)	What are different Meta characters in PERL?
	(x)	Name various versions of PERL. $1\frac{1}{2} \times 10=15$
	S	ECTION—B (Attempt any ONE question)
2.	(a)	Explain the importance of switch case statement. In which situations switch-case statement is desirable? Give its limitations.
	(b)	Write a short note on "Goto" statement. As a programmer, would you prefer this statement Justify your answer. 7
3.	(a)	Write various applications of object oriented programming languages.
	(b)	Write a program to find whether a string is palindrome or not.
	S	ECTION—C (Attempt any ONE question)

(vii) What do you mean by data conversion?

constructor and destructor? (b) Write a program to explain the function overloading

(a) How constructors are different from destructors?

How does inheritance influence the working of

in C++.

(Contd.)

4.

5.	(a)	How multiple inheritance is different from single inheritance? Write small program to show the working of multiple inheritance.	
	(b)	What are access specifiers? Write the visibility modes of access specifiers in the same class, derived class and outside class.	
	S	ECTION—D (Attempt any ONE question)	
6.	Discuss Built in file handlers. What is the procedure for reading from and writing to files in PERL? How reading from sequence of files is done in PERL?		
7.	(a)	Write a program in PERL which reads the in put of 5 integer numbers from a file. Display the numbers in reverse order.	
	(b)	What are integer and float scalar values? Briefly discuss various operations that can be applied on elements of an array.	
	S	ECTION—E (Attempt any ONE question)	
8.	What are the different conditional and logical statements available in PERL language? Discuss their syntax with the help of small example codes in PERL.		
9.	(a)	What is a regular expression in PERL? How is it used in pattern matching?	
	(b)	Briefly explain subroutines in PERL. 5	
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