Exam.Code:0916 Sub. Code: 6246

## 1058

## B.E. (Computer Science and Engineering) Fourth Semester CSE-414: Object Oriented Programming

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. I (Section-A) which is compulsory and selecting two questions each from Section B-C.

	Section-A	
Section-A		
Q 1.	<ul> <li>a) How can we overload assignment operator? Comment.</li> <li>b) How many destructors a class can have? Justify.</li> <li>c) Write appropriate statement(s) to move get pointer 20 bytes back from end of file.</li> <li>d) What is friend function and what is its use?</li> </ul>	5*2=
	e) What are class templates?	
	Section-B	
		10
Q2.	Create a class to represent a vector. It should include the following:  • Elements of the vector (in form of array)  • Size of vector  The class shall support following operations:-  • Input and display vector elements  • To compute the sum of elements of vector.  • To find the largest element of the vector.	
	add two vectors and assign the result to third using statement	
	Add some scalar to elements of Vector ed VI=VITJ	-
Q3.	a) Define type conversion. How conversion from one class type to another	15
QJ.	class type be accomplished? b) What is operator overloading? Is it possible to distinguish between prefix	5
Q4.	a) Consider a class called <i>MyArray</i> having one integer pointer and one class variable. Illustrate the concept of constructor overloading using suitable	6
	programming example. b) In case of multiple inheritance, what is order of execution of constructors. Explain with the help of example	4
	Section-C	
	a) What do you mean by file pointer? Explain various file opening modes.	5
Q5.	b) Write a program to open a file and copy its contents to another file	5
Q6.	a) Create a template function to sort elements of an array. b) What does binding mean? Is there any alternative to run time	5 e 5
67	polymorphism? Justify your answer.  a). What is polymorphism and discuss its various types.	5
Q7.	b) Write a program to demonstrate the use of pure virtual functions.	5