Total No.	of Questions : 8] SEAT No. :			
PD-407	7 [Total No. of Pages : 2			
	[6402]-37			
S.E. (Computer/AI & DS/Computer Science & Design/				
Computer Science Engg.)				
OBJECT ORIENTED PROGRAMMING				
(2019 Pattern) (Semester - III) (210243)				
Time : 21/2				
	ns to the candidates:			
1)	Attempt 0.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.			
2)	Figures to the right indicate full marks.			
3) 4)	Assume suitable data, if necessary. Draw neat & clean diagrams if necessary.			
4)	Draw near & crean augrams if necessary.			
Q1) a)	Compare Function Overloading and Function Overriding. [5]			
b) (What is Virtual Function? Explain with example. [6]			
c) \	Write a program to overload binary operator using member function. [6]			
	OR			
Q2) a)	Explain Virtual destructor with Example. [5]			
b)	What is late binding and early binding? How are they implemented in			
	C++? Give the difference between the two types of binding. [6]			
c)	Write a program to overload binary operator using friend function. [6]			
02)				
Q3) a)	The I/O system of C++ contains which set of classes for file handling?[7]			
b)	What are different ways to opening the file for reading and writing operations?			
c)	Explain the use of command line arguments. If we want to pass command			
<i>C)</i>	line arguments what will be prototype of main function and explain its			
	arguments along with example. [4]			
a a	OR			
Q4) a)	What are cin and cout objects? Explain ios, istream, ostream and iostream			
	classes. [7]			
b)	Write a program to create a file, read and write student records into it.			
	Every record contains Student Name, Roll Number and age. Store and			
	retrieve atleast 3 records. [7]			
c)	What is a file mode? Describe the various file mode options available in			
	C++?			
	P.T.O.			

Q 5)	a)	What is use of type name and export keywords?	[4]
	b)	What is generic programming? How is it implemented in C++?	[6]
	c)	Write a Note on 1) unexpected() function 2) terminate() funct	ion
		3) User defined exception 4) Exception and inheritance.	[8]
		OR	
Q6)	a)	Explain Rethrowing exceptions with Example.	[4]
	b)	Explain What is Function template and Class template using program	.[6]
	c)	How exception specifications is used in exception handling we example	vith [8]
		CAUMPIC, 100	[o]
Q 7)	a)	What is STL? List different types of STL containers.	[4]
	b)	How stack can be implemented using STL. Explain with program.	[6]
	c)	Write a program to illustrate STL heap sort.	[8]
		OR OR	
Q 8)	a)	Explain bidirectional and random access iterators with suitable example	.[4]
	b)	Write a program to implement binary search algorithm using STL.	[6]
	c)	Write C++ program using STL for sorting and searching user defi	
		records such as Item records (Item code, name, cost, quantity etc) us	
		vector container.	[8]
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