Total No. of Questions: 8]	20	SEAT No. :
PA-1197		[Total No. of Pages :
	[50251-010	

[5925] 219 S.E. (Electronics/E & TC/Electronics & Computer) OBJECT ORIENTED PROGRAMMING (2019

Pattern) (Semester - IV) (204194)

	1 attern) (Semester - 1 v) (2041)4)	
	[Max. Marks : 70])
	ions to the cardidates.	
1)	Attempt Q.D or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.	
2)	Neat aidgrams must be drawn whenever necessary.	
3)	Figures to the right side indicate full marks.	
<i>4</i>)	Use of calculator is allowed.	
5)	Assume suitable data if necessary.	
Q1) a)	What are the rules for overloading operators? [4]]
b)	Write down a C++ program to implement operator overloading for complex class. [8]	
c)	Explain Friend function with example. [6]]
	OR	5
Q2) a)	What is operator overloading? Write a program to overload Unary	/
	operator.]
b)	Write down a C++ program for copy constructor for string class. [6]]
c)	Differentiate friend function with normal function of the class. [4]]
Q 3) a)	Explain containment and Inheritance along with examples. [6]	
b)	What is Virtual function? Explain how to achieved run time polymorphism.	
c)	Explain function over loading & function overriding in detail. [6]]
	OR &	

Q4)	a)	What does inheritance mean in C++? Give an example of each.	[6]		
	b)	What is polymorphism? Explain with example to achieved run ti polymorphism.	ime [6]		
	c)	Write copy constructor for Employee class, in which objects of str class and Date class are the Data members.	ing [6]		
Q5)	a)	What is a user defined exception? Write down the scenario where require use define exceptions.	we [6]		
	b)	What is namespace? To demonstrate namespace with example.	[6]		
	c)	Explain class template & function template with example.	[5]		
		OR SE			
Q6)	a)	What is stream? Explain types of streams available in C++.	[6]		
	b) §	Explain namespace in C++ with example?	[6]		
	c)	Compare late binding & early binding	[5]		
Q7)	a)	Explain error handling during file operations.	[6]		
	b)	Write a program using put () to write characters to a file until u enteres a dollar sign.	iser [6]		
	c)	Write a note on file operating modes.	[5]		
		OR OR			
Q 8)	a)	Explain manipulators for file handling in C++?	[5]		
	b)	What is file pointer? Write a note on file opening & file closing.	[6]		
	c)	Explain stream classes hierarchy for file handling in C++.	[6]		
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[592	[5]-2	2			