Total No. of Questions : 8]	290	SEAT No. :
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S.E. (Electronics/E & TC/Electronics & Computer) OBJECT ORIENTED PROGRAMMING (2019

Pattern) (Semester - IV) (204194) *Time* : 2½ *Hours*] [Max. Marks: 70] Instructions to the cardidates. Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8. *1*) *2*) Neat aiggrams must be drawn whenever necessary. Figures to the right side indicate full marks. *3*) Use of calculator is allowed. **4**) Assume suitable data if necessary. 5) What are the rules for overloading operators [4] Write down a C++ program to implement operator overloading for b) complex class. Explain Friend function with example. **[6]** c) What is operator overloading? Write a program to overload Unary **Q2**) a) operator. Write down a C++ program for copy constructor for string class. **[6]** b) Differentiate friend function with normal function of the class. [4] c) Explain containment and Inheritance along with examples. *Q3*) a) [6] What is Virtual function? Explain how to achieved run time b) polymorphism. **[6]**

OR

Explain function over loading & function overriding in detail.

c)

[6]

Q4)	a)	What does inheritance mean in C++2 Give an example of each. [6]		
	b)	What is polymorphism? Explain with example to achieved run ti polymorphism.	me [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 OR		
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 unenteres a dollar sign.	iser	
	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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