Total No. of	Questions	:	8]
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S.E. (Electronics/E & TC) (Electronics & Computer Engineering)

OBJECT ORIENTED PROGRAMMING

		(2019 Pattern) (Semester- IV) (204194)	
Time	: 21/2	Hours] [Max. Marks:	70
Instr	uction	ns to the candidates:	
	<i>1</i>)	Attempt Q.1 or Q,2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.	
	<i>2</i>)	Neat diagrams must be drawn wherever necessary.	
	<i>3</i>)	Figures to the right indicate full marks.	
	<i>4</i>)	Use of Calculator is allowed.	
	5)	Assume suitable data if necessary.	
Q 1)	a)	What is operator overloading? Why it is necessary to overload a operator?	an [6]
	b)	×/*	
	b)		6]
	c)	What are the rules for overloading operators?	6]
Q 2)	a)	Explain friend function with example?	6]
	b)	What are the rules for everloading operators?	6]
	c)	Give a programming example that overloads = = operator with its use.[6]
		6.	
Q 3)	a)	1 60 -	6]
	b)	Discuss the ways in which inheritance promotes software reuse, sav time during program development and helps prevent errors.	es [6]
	c)	What does inheritance mean in C++? What are different forms	_
	4	OR OR	
Q4)	a)	Write a C++ program demonstrating use of the pure virtual function with the use of base and derived classes.	ith [6]
	b)	Discuss the role of access specifiers in inheritance and show their visibili when they are inherited as public, private and protected.	ity [6]
	c)	What is the ambiguity that arisesin multiple inheritance? How it can	

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Q 5)	a)	Explain exception handling mechanism in C++? Write a program in C-to handle divide by zero exception?	++ 6]
	b)	Explain class template using multiple parameters? Write a program	
	c)		[6]
		OR OR	
Q6)	a)	Explain Namespace in C++ with example.	[6]
	b)	Write a C++ program using function template to find the product of twinteger or floating-point type of data.	wo [6]
	c)	What is a user defined exception? Write down the scenario where very require user defined exceptions.	we [6]
Q7)	a)	Write a program using the open(), eof(), and getline() member function to open and read a file content line by line.	on [6]
	b) ⁽⁷⁾	Explain the role of seekg(), seekp(), tellg(), tllp(), function in the proce of random access in a file.	ess [5]
	c)	What is file mode? Explain any four file modes supported by C++. [[6]
		OR	
Q8)	a)	Write a program using put() to write characters to a file until user enter a dollar sign.	ers 6]
	b)	Waht is the difference between opening a file with constructor function and opening a file with open () function? Explain erroe handling during file operation.	on [5]
	c)	Explain erroe handling during file operation.	[6]
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