END TERM EXAMINATION

FOURTH SEMESTER [B.TECH] MAY-JUNE 2016

		e: ETCS 210 Subject: Object Oriented Programming	of the last last
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Note	e: Att	empt any five questions including Q. No. 1 which is compulsor Select one question from each unit.	ry.
Q1.	a)	How does new operator in C++ is different from dynamic allocat	ion
*	-	functions in C? (2.5x10=	
	b)	How static member is different from a non static member?	
	c)	What do you mean by an abstract class?	
	d)	What is an online function? How is it different form a macro?	
	e)	How does C++ support data abstraction?	
	f)	What do you mean by a generic data type?	
	g)	Explain the role of reference variable with suitable example.	
	h)	What do you mean by the name space concept?	
	i)	What do you mean by base address of an array? Can you access	the
		content of an array by incrementing the base address value?	
	j)	What is type casting and when is it used?	
		Unit-I	
Q2.	a)	Write a C++ code to store 6 integer numbers using dynamic mem	orv
	-,	allocation approach.	(6)
	b)		5.5)
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Q3.	a)	Write a function for multiplication of two matrices.	(6)
	b)		5.5)
~ .		Unit-II	
Q4.	a)	What is a friend function? Write its merits and demerits.	(6)
	b)	Write a program that will add two time values measured in terms	
			5.5)
Q5.	a)	What is a copy constructor? Explain with suitable example.	(6)
	b)	Write a program that overloads an unary minus operator. (6	5.5)
		Unit-III	
Q6.	Wht	do you mean by polymorphism? Explain various types of polymorphi	ism
			2.5)
Q7.	a)	Write a template function that finds maximum value in an array which	h is
Q.	~	passed to it as an argument.	(6)
	b)		5.5)
	9	<u>Unit-IV</u>	
Q8.	a)		5.5)
	b)	Write a C++ program that displays the content of a file.	(6)
Q9.	Wri	e a program that reads (12	2.5)
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		the keyboard into five separate string objects and then concatenates th	nem
		a new string using append() function.	1