Seat N		GU	JJARAT TECHNOLOGICAL UNIVERSITY MCA- II <sup>nd</sup> SEMESTER-EXAMINATION –JUNE - 2012	
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-			: Object Oriented Programming Concepts & Programming (	
			r	Marks: 70
Insti				
		_	all questions.	
			table assumptions wherever necessary.	
3.	Figu	ures t	o the right indicate full marks.	
Q.1	(a)	I	When static data member is declared in a class? Explain with suitable example.	04
		II	What is difference between a default constructor provided by	03
			compiler and a user-defined default constructor?	
	<b>(b)</b>		Explain the following terms.	
	()	Ι	Constant pointer and pointer to constant.	04
		II	Constant object and constant member function.	03
0.1	(-)		Distinguish between many definition many life attention and	07
<b>Q.2</b>	(a)		,	07
			inline function. What are the advantages and disadvantages of inline function?	
	<b>(b)</b>		What is the need of friend function within a class? Explain with proper real-life example.	07
			OR	
	<b>(b)</b>		What are the advantage and disadvantage of using MIL over assignment?	07
0.3	(a)	т	How is the memory ellocated to the chiest of a close? Explain	04
Q.3	(a)	I	How is the memory allocated to the object of a class? Explain with example.	04
		II	Explain: Abstraction and Encapsulation	03
			Explain: 1100traction and Encapsulation	03
	<b>(b)</b>	I	How is polymorphism related to function overloading	03
	` '	II	How can prefix ++ and postfix ++ operator be overloaded?	04
			Explain with C++ code.	
			OR	
<b>Q.3</b>	(a)	I	Explain user defined conversion function which converts	04
			user-defined object to built-in data type.	
		II	How a template function is overloaded? Explain with example.	03
	<b>(b)</b>	I	What is the need of virtual base class? Explain with code.	04
	(D)	II	What is the need of for dynamic allocation in a constructor?	03
		11	Explain a case where such type of constructor is needed.	UJ
Q.4	(a)	I	What are the difference between public, private and protected	04

How can >> and << operator be overloaded?

inheritance?

II

**(b)** 

Explain abstract class.

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