GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-IV • EXAMINATION – SUMMER 2013

Subject Code: 140704 Date: 17-06-201 Subject Name: Object Oriented Concept and Programming			
Time: 10:30am – 01:00pm Total Marks: 70			
Instructions:			
	1.	Attempt all questions.	
	2.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks	
0.1			
Q:1	(a)	Differentiate the following.	(07)
		Aggregation and Generalization	
	(b)	• Ordering and Sequences What is Inheritance? Eurlain different types of Inheritance with suitable	(07)
	(D)	what is inneritance? Explain different types of inneritance with suitable	(07)
0.2	(a)	Differentiate Event and State, Explain types of events with example	(07)
Q.2	(a) (b)	Explain this pointer using suitable C_{++} programming example	(07)
	(0)	OR	(0^{T})
	(b)	What is a friend function? What are the merits and demerits of using friend	(07)
		functions?	
Q:3	(a)	Explain one-shot state diagram with example.	(04)
	(b)	Explain the purposes of modeling.	(04)
	(c)	Explain following terms using example:	(06)
		Enumeration, Derived Data, Qualifier	
~ -	<i>.</i>	OR	(a. e.)
Q:3	(a)	Explain the purposes of Generalization.	(04)
	(b)	Explain Data Flow Diagram with suitable example.	(04)
	(C)	Explain following terms using example:	(06)
0.4	(a)	What do you mean by Implicit and Explicit conversion?	(07)
Q:4	(a)	example	(07)
	(h)	Example. Example: $F_{\rm rel}$	(07)
	(0)	OR	(07)
O:4	(a)	Explain the following terms with suitable example.	(07)
C		Pure virtual functions, Inline function	
	(b)	Explain copy constructor giving suitable C++ programming example.	(07)
Q:5	(a)	What do you mean by operator overloading? Give C++ programming example	(07)
		that overload unary minus operator with its use.	
	(b)	Define a class numbers, having data members as A and B. Define a friend	(07)
		function mul () to multiply these two numbers and display all numbers using	
		display () friend function.	
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Q:5	(a) (b)	Explain function overloading with suitable example.	(07)
	(D)	write a program to evaluate the following output.	(07)
		32	
		654	
		10987	
