Sea	t No.:	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
		M. E SEMESTER – I • EXAMINATION – WINTER 2012	
Su	biect	code: 712303N Date: 12-01-2013	
	_	Name: Object Oriented Methodology	
	-	22.30 pm – 05.00 pm Total Marks: 70	
		etions:	
1113			
		Attempt all questions. Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
	3.	rigures to the right mulcate full marks.	
Q.1	(a)	What are the reasons of evolving the Object Oriented Methodology in	07
	(3.)	programming? Explain with real world example.	۰-
	(b)	Create one class, constructor, interface, objects and implement interface. Explain	07
Q.2	(a)	with real world example. Explain relationships among three OOM models. How are they correlated with	07
Q.2	(a)	each other?	U/
	(b)	Short note: Multiple Inheritance.	03
	(~)	OR	•••
		What is RTTI? How is it done in java?	
	(c)	Short Note: Differences among Aggregation, Association, Generalization by	04
		example.	
		OR	
0.1	()	Draw the DFD of windowed graphics display.	0=
Q.3	(a)	Explain Observer design pattern in detail with suitable example.	07
	(b)	Explain cloneable interface and runnable interface by example.	07
0.0		OR	^-
Q.3	(a)	Implement Java Remote Method Invocation application of message transfer or chat server.	07
	(b)	A directory file contains information about files in directory, including both ordinary files as well as other directory files. Prepare an object diagram which	07
0.4	()	models directory files and ordinary files.	0.4
Q.4	(a)	Write the statement of "Liskov's substitution principle". Explain with example.	04
	(b)	Write a program of comparing two objects and Explain.	03
	(c)	Explain following terms with example: metadata, patterns, candidate keys,	07
		constraints, and derived object, prepare a portion of an object diagram for a	
		banking loan approval system. OR	
Q.4	(a)	Draw the event trace diagram of phone call.	04
	(b)	Explain Iterator design pattern with example	03
	(c)	Create a Use case diagram for registering new member in library management	07
		system.Draw a Sequence diagram for same. And also draw a Sequence diagram	
		for issuing a book in library system.	
Q.5	(a)	Explain client server architecture system by example.	07
	(b)	What is pattern based architecture? Explain.	04
	(c)	Explain differences between JSP and servlet.	03
Q.5	(e)	OR Write a note on MVC architecture.	07
Ų.S	(a) (b)	Explain exception handling in Java. How is it done?	04
	(c)	Explain why mistakes made in the requirements analysis stage are the costiest to	03
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correct?