Seat No.: Enrolment No GUJARAT TECHNOLOGICAL UNIVERSITY					
M.E –II st SEMESTER–EXAMINATION – JULY- 2012 Subject code: 1720109 Date: 14/0					
Subject Name: Object Oriented Programming Time: 10:30 am – 13:00 pm Total Mark Instructions:					
2.	Mal	empt all questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.			
Q.1	(a)	Explain the following terms: 1. Inheritance 2. Polymorphism 3. Carbon Calletian	07		
	(b)	 3. Garbage Collection What are the functions of the following keywords? 1. super 2. static 3. this 4. transient 5. throws 6. volatile 7. synchronized 	07		
Q.2	(a)	Differentiate the following terms: 1. final, finally and finalized()	07		
	(b)	 equals() and = = Explain narrowing and widening conversion Explain wait(), notify() and notifyAll() methods Explain Alive () and join() methods 	07		
	(b)	OR 1. What is abstract method? 2. Explain instance of operator 3. Explain access modifiers	07		
Q.3	(a)	1.What is constructor?2.What do you mean by constructor overloading?3.Write a program to find maximum between two numbers using	07		
	(b)	method overloading 1. What is interface? 2. What do you mean by method overriding? 3. Create an interface Calculator and define the following two methods in it int add(int a, int b); int subtract(int a, int b); implement these methods in class Normal_Calculator	07		
Q.3	(a) (b)	OR What is Applet? Write a program to draw rectangle, oval, arc line, rectangle with rounded corners using an applet What is AWT? Explain delegation event model and draw class hierarchy	07 07		
Q.4	(a)	for Panel and Frame What is the difference between Text field and Text area? Demonstrate	07		

	(b)	getCodeBase() and getDocumentBase() with the help of program What is chatAt() method of String class? Explain FileReader with the help of program	07
		OR	
Q.4	(a)	What do you mean by Exception? What is the difference between checked and unchecked exception? Explain chained Exception	07
Q.4	(b)		07
Q.5	(a)	 What is thread? What is the basic difference between string and stringbuffer object? What is an inner class? 	07
		4. What is the base class for Error and Exception?	
		5. What is NullPointerException?	
		6. Explain the usage of java packages	
	(b)	What is an Event? Explain any three String operations	07
		OR	
Q.5	(a)	1. What is Math class?	07
		2. What is ternary operator?	
		3. Why is java known as a platform independent language?	
		4. What are wrapper classes?	
		5. What is the difference between yielding and sleeping?	
		6. Give the difference between paint () and repaint() method	
	(b)	What is an array? What do you mean by truncation? Write a program to	07
		sort an integer array	
