Seat N	o.:	Enrolment No.	
	_	GUJARAT TECHNOLOGICAL UNIVERSITY	
		M.C.A -III rd SEMESTER-EXAMINATION – MAY- 2012	
Subje	ect c	ode: 630002 Date: 24/05/2012	2
Subje	ect N	Name: Fundamentals of Java Programming (Java)	
_		:30 pm – 05:00 pm Total Marks: 70)
Instr		-	
1.	Atto	empt all questions.	
		ke suitable assumptions wherever necessary.	
3.	Figu	ures to the right indicate full marks.	
0.1	(a)	(1) Why Java is so popular?	03
Q.1	(a)	(1) Why Java is so popular?(2) What is an interface? How it is important in Java? Explain with example.	03
	(b)	Specify whether the following statements are True or False. If False then correct it.	07
		 (1) Each object has its own copy of the static variables defined in the class. (2) Always a super class constructor must execute before a subclass constructor. (3) A class can extend from more than one super class. 	
		(4) To call the parent class constructor explicitly, super() and this() both are use together.	
		(5) A local variable may be declared with the same name as a static or instance variable.	
		(6) Static variable are initialized to default value when the object is created.(7) Class X is a super class of X1, Class X1 is a super class of class X11. The variable of class X1 can reference any object of class X, X1, X11.	
Q.2	(a)	What is an Exception? How many different types of exception available in Java? Explain in detail.	07
	(b)	What is Thread? How thread is created in Java? Explain with example. OR	07
	(b)	Explain the life cycle of Thread. Specify some important methods of Thread class.	07
Q.3	(a)	(1) What is Package? How it is useful in Java with example?	04
	(b)	(2) Difference between static and instance variable with example.(1) Explain about the synchronization of thread with suitable example.	03 04
	(D)	(2) Difference between String and StringBuffer class.	03
		OR	93
Q.3	(a)	(1) What is stream? Explain different types of stream.	04
· · ·	\ ·/	(2) Explain abstract, final and public class modifier.	03
	(b)	(1) Explain the importance of Graphics, Color and Font class of java.awt package with its method.	04
		(2) What is an Exception? How it can handle? Explain with example.	03

(2) Explain final, native and synchronized method modifier.

OR

Q.4 (a) Explain the life cycle of an Applet with example.
(b) (1) What is Checkbox and Radio Button? How it is created in Java?
(2) How many different types of programs create in Java? Explain in detail.
03

(b) (1) What is container and component class in Java? Specify different types of

interface is useful in Java explain with code?

components with its events?

(a) What is difference between Vector and Hashtable class? How the Enumeration 07

04

1

Q.4

Q.5	(a)	What is an event listener? List down all event listener and use it for which	07
		component.	
	(b)	(1) What is CLASSPATH? How it is important?	03
		(2) Write a program to create an applet which shows current date and time	04
		continuously using Thread.	
		OR	
Q.5	(a)	What is Layout Manager? Explain the different types of layout in details.	07
	(b)	(1) Explain the importance of super and this keyword with example.	03
		(2) Write a program which write 10 numbers in the file. Read this file and	04
		identify odd and even numbers among them.	
