Seat No.: Enrolment No GUJARAT TECHNOLOGICAL UNIVERSITY SEMESTER 2 EYAMINATION WINTER 2012				
•		SEMESTER- 3 EXAMINATION – WINTER 2012 code: 630002 Date: 01/0 Name: Fundamentals of Java Programming	01/2013	
Time:10:30 – 13:00 Total M				
Instr	ucti	ons:		
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	State whether the following statements are true or false. Justify yours	07	
		answer 1. 'new' operator is used to create both primitive types and		
		objects.		
		2. static methods can be called with its 'this' reference		
		3. 'final' can be used to prevent a method from being overloaded.4. A class can inherit exactly one interface.		
		5. More than one file can include the same package statement.		
		6. Java's exception handling mechanism is meant to handle only		
		runtime errors. 7. A component can have multiple listeners for events of different		
		types.		
	(b)	Fill in the blanks with appropriate words:	07	
		1. The block if present, is always executed irrespective of the occurrence of exception.		
		2. Applets do not need a method.		
		3. The streams available in Java are and		
		4 is a collection interface used to maintain unique		
		elements. 5. The syntax to assign octal 12 to an integer variable 'x' is		
		6. In java the method binding is done at time.		
		7. Create a/an when you have a fixed number of instances.		
0.4			a=	
Q.2	(a)	What are the access specifiers available in Java? Explain each of them and state which of these can be applied to members of a class and	07	
		which can be applied to members of a package.		
	(b)		07	
	(1.)	OR	07	
	(b)	Explain the concept of creating anonymous class with appropriate example	07	
Q.3	(a)	What role does an interface play in multiple inheritance. Also	07	
	(b)	differentiate between abstract class and an interface. Compare Iterator and Enumeration interface. Also explain the Map	07	
	(U)	interface of Collection Framework.	07	
		OR		
Q.3	(a)	Write a note on daemon thread. Also explain the priorities of thread?	07	

Discuss the default priority and priority setting and retrieving.

(b) What is the difference between runtime errors and compile time errors? **07** Explain using suitable example. Give the hierarchy of Exception. Also

Q.4	(a)	1. Explain event delegation model for event handling in Java	04
	(b)	2. Compare the adapter classes with listener interfaces Explain the life cycle of an Applet? Explain various methods of the life	03 07
	(0)	cycle of applet	U /
		OR	
Q.4	(a)	1. What are annotations and how are they useful?	04
	` /	2. Explain the use of finalize method	03
	(b)	Explain the difference between Comparable and the Comparator	07
		interfaces. Explain them with appropriate example.	
Q.5	(a)	1. Discuss the significance of wrapper classes. List the names of	04
		all the wrapper classes in Java	
		2. Give the output for the following code:	03
		class Ex12{ public static void main(String [Lorge)]	
		public static void main(String [] args) {	
		try { badMethod();	
		System.out.print("A"); }	
		catch (Exception ex)	
		{ System.out.print("B"); }	
		finally	
		{ System.out.print("C"); }	
		System.out.print("D");	
		}	
		public static void badMethod()	
		{ throw new Error(); }	
	(b)	Design a registration form for new user. On clicking submit button, entered	07
	(D)	data should be display in on dialog box.	U/
		OR	
Q.5	(a)	1. Differentiate between AWT and Swing.	
		2. Explain the use of keyword "transient".	04
			03
	(b)	Write a program of threads to show inter-communication of two threads: t1 and t2 synchronizing on a shared object. Let t1 print message "ping>" and t2 print message "< pong". Make the	07
		threads execute in a way that the output displays a consistent patterns of "ping> < pong"	
