Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-III • EXAMINATION – SUMMER 2013

Subject Code: 630002		Code: 630002 Date: 13-05-2013	Date: 13-05-2013	
Subj	ject I	Name: Fundamentals of Java Programming		
		0.30 am - 01.00 pm Total Marks: 70		
Instru		s: Attempt all questions.		
	2.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)			
		1. Define following terms.	03	
		I. Bytecode II. Deamon Thread III. Event	Λ1	
		2. public class Test {	01	
		static int age; public static void main (String args []) {		
		age = age + 1;		
		System.out.println("The age is " + age);		
		}}		
		Give the output.		
		3. Using a FlowLayout manager, which is the correct way to	01	
		add elements to a container:		
		I. add(component); II. add("Center", component);		
		III. add(x, y, component); IV. set(component);	Λ1	
		4. What class must an inner class extend:	01	
		I. The top level class III. Any class or interface IV. It must extend an interface		
		5. Which of the following, are valid return types, for listener	01	
		methods:	V-	
		I. boolean II. the type of event handled		
		III. void IV. Component		
	(b)		07	
		1. We can make constructor final.		
		I. True II. False		
		2class is the superclass for every class?3. MouseMotionListener fire events when mouse is		
		4. The or method sets background color of		
		an applet.		
		5. Can you declare the main method as final?		
		I. Yes II. No		
		6. The expression str.length returns the length (number of		
		characters) contained in str, a String object.		
		I. True II. False		
		7. Is null a keyword in java?		
		I Ves II No		

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Q.2
              Answer the Following Questions.
        (a)
              1. public class Test
                                                                                             02
                  public static void main(String args[])
                    if ( "string".toUpperCase() == "STRING")
                     System.out.println("Equal");
                     System.out.println("Not Equal");
                  } }
              Give the output.
                                                                                             02
              2. What would be the result of executing the following code, using the
              parameters 5 and 0 for a and b respectively:
              public void divide(int a, int b) {
              try {
              int c = a / b;
              } catch (Exception e) {
              System.out.print("Exception ");
              } finally {
              System.out.println("Finally");
              3. Differentiate String and StringBuffer class. Discuss substring
                                                                                             03
                method of String class with proper example.
              Define Thread. Explain the importance of Synchronization with example.
                                                                                             07
        (b)
        (b)
              Discuss about initializer blocks and class initializer blocks.
                                                                                             07
              Define package. State the steps to create and import a package.
                                                                                             07
Q.3
        (a)
              Define interface. How does it overcome the problem of java's multiple
        (b)
                                                                                             07
              inheritance?
                                                   OR
              Explain enum type with example.
Q.3
        (a)
                                                                                             07
              What is Applet? Discuss applet tag with its different attributes.
        (b)
                                                                                             07
              Differentiate final and finally with example.
Q.4
                                                                                             07
        (a)
        (b)
              What is Layout? List different layouts and explain Card Layout with
                                                                                             07
              example.
                                                   OR
              Define exception. Differentiate throw and throws with example.
                                                                                             07
Q.4
        (a)
             What is collection framework? Discuss Map interface with example.
Q.4
        (b)
                                                                                             07
              AWT components are known as heavy weight component? Elaborate.
Q.5
                                                                                             07
        (a)
              Define file. Discuss any six methods of file class.
        (b)
                                                                                             07
Q.5
        (a)
              Explain Event Delegation Model with example.
                                                                                             07
              Explain formatter and scanner class with example.
                                                                                             07
        (b)
```
