Registration No.:					
Total number of print	ed pages – 2				B. Tech
				_	DCIT //202

Fifth Semester Examination – 2013 JAVA PROGRAMMING

BRANCH: IT, CSE

QUESTION CODE: C-378

Full Marks - 70

Time: 3 Hours

Answer Question No. 1 which is compulsory and any five from the rest.

The figures in the right-hand margin indicate marks.

Answer the following questions :

2×10

- (a) Assume double[][] x = new double[4[5]] what are x.length and x[2].length?
- (b) What are the default values for data lield of a Boolean type and object type in java?
- (c) Differentiate between String and StringBuffer classes?
- (d) To draw graphics which class is extended and which method is overridden?
- (e) What exception type does the following program throw? public class Test { public static void main(String[] args) { String s = "abc"; System.out.println(s.charAt(3)); }
- (f) Which method belongs to every event object?
- (g) Differentiate between a java application and an applet.
- (h) List two properties of JScrollBar and JSlider.
- (i) Which methods in the Thread class are deprecated?
- (j) What are the two use of the keyword super?

2.	(a)	What is function overloading? What are the various ways of overloading a constructor? Explain.
	(b)	Define inheritance. How the access specifiers modify the behavior of java program implementing Inheritance? Explain.
3.	(a)	How a class is related to a package? What are the categories of visibility for class members in a package hierarchy?
	(b)	What is the difference between an abstract class and an interface and when should you use them?
4.	(a)	How can threads communicate with each other? How would you implement a producer (one thread) and a consumer (another thread) passing data (via stack)?
	(b)	How errors are handled in java? What is a user defined exception? 5
5.	(a)	Explain different ways of creating a thread. 5
	(b)	What is the difference between AW and Swing? Explain with an example.
6,	(a)	Draw a Smiley using java applet to represent dna browser. 5
	(b)	Write down a java program to get X and Y coordinates of JTextField. 5
7.	(a)	Write down a java program using wrapper glasses to convert a hexadecimal number into a decimal number.
	(b)	What is the order of method invocation in an applet?
8.	Writ	te short notes on any two : 5×2
	(a)	TCP/IP Server Socket
	(b)	Layout Managers
	(c)	Remote Method Invocation(RMI)
	(d)	JDBC.