

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – I • EXAMINATION – WINTER 2012****Subject code: 715103N****Date: 10/01/2013****Subject Name: Object Oriented Programming****Time: 02.30 pm – 05.00 pm****Total Marks: 70****Instructions:**

- 1. Attempt to Question No.1 is compulsory and answer any five questions from the rest.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

Q. No. 1

[2 Marks X 10 = 20 Marks]

- a. What is an array with example?
- b. What are constant arguments?
- c. Write the differences between object oriented programming and procedure oriented programming.
- d. What are the use of finalize() method
- e. Define parameterized constructor?
- f. What is the difference between throw and throws statement
- g. What is inner class? Illustrate with an example.
- h. What is multiple inheritance?
- i. Define constant object?
- j. Define function overloading with example?

Q. No. 2

- a. What is a constructor? How do we invoke a constructor? [5 Marks]
- b. What are objects? How are they created from a class? [5 Marks]

Q.No. 3

- a. What are accessor methods with example? [6 Marks]
- b. Explain throws statement in Java with the help of an example program. [4 Marks]

Q. No. 4

- a. What is exceptional handling? Explain the uses with example. [6 Marks]
- b. Define interface? What is the use of interface [4 Marks]

Q. No. 5

- a. Discuss briefly about the following: TCP, UDP, URL [6 Marks]
- b. What is InetAddress? How to create an InetAddress? [4 Marks]

Q. No. 6

- a. Explain the features of JAVA. How Java is different from C++. [5 Marks]
- b. Explain the concept of multidimensional arrays in JAVA [5 Marks]

Q. No. 7

- a. Define runtime polymorphism. Write Java program to illustrate runtime Polymorphism.. [5 Marks]
- b. What is the purpose of using a method? How do you declare a method? How do you invoke a method? [5 Marks]

Q. No. 8

- a. Discuss in detail the memory management in java w.r.t variables of primitive type, reference types and user defined objects. [10 Marks]
