Registration no:

4th Semester Regular/Back Examination – 2016
PROGRAMMING WITH JAVA
Branch : MCA
Time: 3 Hours
Max marks: 70
Q Code : MCC 401
Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

Q1   Answer the following questions   (2 x 10)
  a) What is signature of a method? How it is written in java?
  b) Assume double [ ] [ ] x = new double [4][5], what are x.length and x[2].length?
  c) Suppose s1 and s2 are two strings. What is the result of the following code?
       s1.equals(s2) == s2.equals(s1)
  d) What are the two ways of overriding an method?
  e) Give two examples of heavy weight components?
  f) What should be the code to draw a circle with radius 20 centered at (50, 50) given a Graphics object g?
  g) Differentiate between abstract class and abstract method?
  h) What exception type does the following program throw?
     public class Test {
       public static void main(String[] args) {
         System.out.println(1 / 0);
       }down the statement used for
     }
  i) What will happen if the an applet does not contain init() method?
  j) Write down the statement used by the server which listens for a connection request from a client

Q2   Differentiate between method overloading and method overriding with an example?   (10)

Q3   Define inheritance? What are the types of inheritance supported by Java, explain with neat diagrams?   (10)

Q4 a) Define a package? Create a package with the name power that can used to calculate the powerl of a number?   (5)
    b) How thread priorities are set, explain with an example?   (5)

Q5 a) Write down a java applet to display the message "My first applet" on a browser? What is the use of applet viewer?   (5)

b) Discuss the Java error handling mechanism? What is the difference between **unchecked** exceptions and **checked** exceptions? (5)

Q6 a) What is the difference between synchronized method and synchronized block, explain with an example? (5)

b) What is a socket? How do you facilitate inter process communication in Java? (5)

Q7 a) Discuss the major differences between shallow cloning and deep cloning of objects? (5)

b) Write down a java program to create a Frame window in an applet? (5)

Q8 Write Short notes (Any Two) (5 x 2)
a) Java Collection Frame work
b) Layout Managers
c) Remote Method Invocation(RMI)
d) JDBC