END TERM EXAMINATION

Paper Code: MCA-206	**Subject: Java Programming & Website design**
Paper Id-44206	**(Batch: 2004-2007)**

Time : 3 Hours   **Maximum Marks : 60**

Note: Q1 is compulsory. Attempt one question from each unit.

Section A

Q1. Answer **any 10** Questions   2*10=20
   a) Discuss the need for inner classes?
   b) Who makes compiled JAVA programs platform independent?
   c) How does JAVA solve the problem of memory leakage?
   d) Discuss Java access specifiers.
   e) What is JAVA Bean? What are it's advantages?
   f) Discuss the significance of PATH and CLASSPATH.
   g) What is PushBackInputStream? Give an Example.
   h) What's the difference between the methods sleep() and wait()
   i) Differentiate between server side and client side scripting.
   j) What are interfaces?
   k) Discus the requirements of each keyword in the following Java program
      statement.
      "public static void   main(String ar[])"

Section B
UNIT-I

Q2. a) Differentiate between String and StringBuffer. Discuss with example where we should use what.   [5]
   b) What is class variable?   [2]
   c) Drive two classes from the class Amount and show is –a relationship redefine withdraw function and set overdraft limit for current account.   [3]

Q3. a) What are similarities and differences between an Abstract class and interface? Explain with an example.   [5])
   b) Write a program to implement a class, Employee, with data members (lastname,firstname, hourlywages,yearswithcompnay.). Take the data 0f 100 employees in an array.Write a code segment that will output of the first name, ladt name, andhourly wafe of each employee who has been with the company 20 years or more.
Employee[] employeeData = new Employee[100]   [5]

UNIT-II

Q4. a) What do understand by Synchronization? Discuss with an example.   [4]
   b) Write a program to maintain file using DataInputStream/DataoutputStream object and implement menu driven programming withth efollowing options.   [6]
      i) Searching of Object using key values
      ii) Modification

iii) Append

Q5. a) What are different types of exceptions in Java? Explain briefly how they work? Give their example.   [5]

   b) Create a client server application to implement a dictionary in which client will send a word to the server and server provides the meaning of word to the client.   [5]

UNIT-III

Q6. a) Write code snippets for **any Three:**   **[2*3 =6]**
   i)   Check whether right mouse button was pressed when a MouseEvent occurred.
   ii)   Check whether CTRL key was down when a **KeyEvent** occurred.
   iii) Show a particular card when the layout manager is **CardLayout**
   iv) Check whether the source of an action event was a **Button** or a **List**
   v)   Check whether the source of a text event was the TextField tfName or tfPassword.
   vi)   Set the password character in a textfield to "#"
   b) Explain lifecycle of a servelet.   [4]

Q.7. a) What are the Applet's Life Cycle methods? Explain them?   [5]
    b) Write short notes on Layout managers.   [5]

UNIT-IV

Q8. a) Differentiate the following   [1.5* 2 =3]
   i)   JAVA and JavaScript
   ii)   Get and post method
   b) Discuss the various ASP built in Objects   [7]

Q.9. a) Discuss any four services provided by internet   [4]
    b) Write the HTML code to generate a Web page in the format given below: [6]
     i) Background color of the page should be "Cyan"
     ii) Text style should be Comic Sans MS and color should be Red.
     iii)   Picture used in the page is the file "activity.jpg" located in the subfolder pictures.
     iv)   Table should have a border of color blue.
     v)   Use the concept of nested lists for creating the list given in the web page with specified bullets.
     vi)   Page linked to indoor activities as "in.html" and outdoor activities as "out.html"