(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 7311   Roll No.

MCA.
(SEMESTER-IV) THEORY EXAMINATION, 2012-13
INTERNET & JAVA PROGRAMMING

Time : 3 Hours]   *[Total Marks : 100*

SECTION – A

1.   Attempt **all** question parts : $10 \times 2 = 20$

   (a)   How is Java more secured than other languages ?

   (b)   What are collections (or containers) in object oriented program design ?

   (c)   In your opinion, why is Java considered important to internet ?

   (d)   What do you mean by user defined exception ?

   (e)   What do you mean by inheritance ?

   (f)   How many types of socket available in Java ?

   (g)   What do you mean by method invocation ?

   (h)   Name the borders provided by Swing.

   (i)   What are wildcards in SQL ?

   (j)   Define RMI.

SECTION – B

2.   Attempt any **three** question parts : $3 \times 10 = 30$

   (a)   Write a short note on video conferencing.

   (b)   Discuss about the event-delegation model in Java AWT. How many layout managers available in Java ? Discuss.

   (c)   What is the difference between AWT and Swing ? In what way Jbutton is better than Button class ? Explain with example.

   (d)   What are wildcards in SQL ? If you want to use the percent sign (%) as the present sign and not have it interpreted as the SQL wildcard used in SQL LIKE queries, how to do that ?

   (e)   What is a servlet ? Explain the three methods available in Java that play an important role in the life cycle of a servlet.

SECTION – C

Attempt **all** questions : $5 \times 10 = 50$

3.   Attempt any **two** parts : $2 \times 5 = 10$

  (a)   Write a short note on sending and receiving secure E-mail protocols.

  (b)   Explain the working of IP Telephony with an example.

  (c)   Explain how an ISP gets chosen.

4.   Attempt any **one** part : $1 \times 10 = 10$

  (a)   What is difference between implicit and explicit important statements ? Which one take less time for compilation and why ? Discuss the life cycle of Applet program for displaying "I am here" at the middle of the applet.

  (b)   Write a program for displaying a frame and place a level at the middle of the frame with help of border layout manager.

5.   Attempt any **one** part : $1 \times 10 = 10$

  (a)   Write a program in Java to create a button using Swing; on clicking on this button the current application should close. Explain the output also.

  (b)   What is a JDBC Driver ? Explain all the functions of a JDBC Driver and their advantages and disadvantages.

6.   Attempt any **one** part : $1 \times 10 = 10$

  (a)   Explain the following terms with suitable code and examples :

    (i)   Writing RMI Services

    (ii)   Writing RMI Clients

    (iii)   Running the Client and the server

  (b)   List all the properties of Java Beans. Explain any two of them with suitable example (program). Explain the role of manifest and jar files.

7.   Attempt any **two** parts : $2 \times 5 = 10$

  (a)   Write a Servlet code that uses cookies to store the number of times a user has visited your Servlet.

  (b)   Compare life cycle of Servlet and JSP with one simple code.

  (c)   Explain briefly about Thread Safe Servlets.

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