Printed Pages : 3

MCA – 403

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

PAPER ID : 1474

Roll No.

MCA

(SEM. IV) EXAMINATION, 2006-07

INTERNET & JAVA PROGRAMMING

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

Note :　　(1)　*Attempt all questions.*

　　　　　　(2)　*All questions carry equal marks.*

　　　　　　(3)　*Be precise in your answer.*

1　　Attempt any **four** parts of the following :　　**5×4=20**

　　(a)　What is Internet? What are web addresses? Explain the general syntax of web address.

　　(b)　What are E-mails? How are they sent? Explain the composition of any E-mail address.

　　(c)　Discuss the utility of Netscape Navigator Browser of Internet.

　　(d)　Explain the purpose of following :

　　　　(i)　XML　　　　　　(ii)　HTML

　　　　(iii)　DNS　　　　　(iv)　ISP.

　　(e)　Write short notes on the following :

　　　　(i)　ISDN

　　　　(ii)　FTP.

　　(f)　What are the H/W and S/W requirements for video conferencing?

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2   Attempt any **four** parts of the following: **5×4=20**

   (a)   Explain why Java is considered as the best language for Internet applications.

   (b)   What do you mean by classes and objects? Explain with suitable examples and how objects and classes are created in Java?

   (c)   Define the following with example.

      (i)   Encapsulation

      (ii)   Inheritance

   (d)   Write a program in Java to create first 100 Fibonacci numbers.

   (e)   What do you stand by multithread programming? Explain with a simple suitable example.

   (f)   Discuss various primitive data types supported by Java.

3   Attempt any **two** parts of the following :

   (a)   (i)   What are the advantages of using JDBC with Java?

      (ii)   What are the different types of statements available in JDBC? Where do we use these statements?

   (b)   Assume that there is a table named as student in MS-Access with the following fields: Std_Roll no., name,course, ph_no. Write a Java program to insert and then display the records of this table using JDBC.

   (c)   Write short notes on the following:

      (i)   Toggle buttons

      (ii)   Combo box

      (iii) Tabbed Panes

      (iv)   Scroll Panes.

V–1474]   2   **[Contd..**

4   Attempt any **four** parts of the following :

(a)   What is a Java Bean? Discuss the advantages of Java Bean.

(b)   Describe an utility that enables to configure a set of Beans, connect them together, and produce a working application.

(c)   What do you mean by JAR filers? Discuss.

(d)   What do you mean by state of Bean. In this reference describe indexed properties of a class with the help of suitable example.

(e)   Define RMI. Give a simple client-server application using RMI.

(f)   Define Enterprise Java Beans.

5   Attempt any **four** from the following :

(a)   Discuss the role of JSP in development of websites.

(b)   Why do we need inter servlet communication?

(c)   Write a short note on thread-safe servlets.

(d)   What do you mean by HTTP Redirects.

(e)   Define the following in brief

(i)   Servlet life cycle

(ii)   Debugging servlets.

(f)   Define cookies? How they are used in retrieving the information from clients.

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