ALCCS – OLD SCHEME

Code: CS481 **Subject: ADVANCED JAVA & INTERNET TECHNOLOGY**
Time: 3 Hours **Max. Marks: 100**

AUGUST 2011

NOTE:
- **Please write your Roll No. at the space provided on each page immediately after receiving the Question Paper.**
- **Question 1 is compulsory and carries 28 marks. Answer any FOUR questions from the rest. Marks are indicated against each question.**
- **Parts of a question should be answered at the same place.**

Q.1 (7 × 4)

    a. What is HTML? Discuss about frameset and frame tag of HTML.

    b. What is XML? Discuss about its uses.

    c. What is cascading style sheet? Why it is useful in web page design?

    d. Explain the Applet Tag used in HTML and attribute used in Applet Tag.

    e. What are remote objects? How can you use them?

    f. Explain the purpose / use of the following classes:
       (i)   DriverManager
       (ii) ResultSet

    g. What is a servlet? Why are they used? List any four interfaces defined in javax.servlet.

Q.2   a. What is a web server? How is it different from proxy server? **(9)**

       b. Explain the following in the context of JSP
        (i)   Request and response objects.
        (ii) Directives.
        (iii) Cookies and their use. **(9)**

Q.3   a. Write a script using Javascript that checks if the given input for age field is in the range of 0 to 150. Also write the appropriate HTML code to implement this script.**(9)**

       b. What is DTD? How is it useful for validating XML? Explain with the help of an example. **(9)**

Q.4 a. What is session management? Explain with the help of an example program.   **(9)**

        b. Write a program to implement socket programming using DataGram class in java. **(9)**

Q.5 a. What is Distributed application architecture? What is RMI? List the steps for building distributed applications using RMI.   **(9)**

        b. Explain the following terms:

        (i)   VPN
        (ii) JINI
        (iii) S-HTTP   **(9)**

Q.6 a. What is JDBC? Discuss about different drivers of JDBC.   **(9)**

        b. Write a program to display a database file containing customer_id,name and address using JDBC.   **(9)**

Q.7 a. What is java bean? Discuss about its features in brief. Explain the concept of persistent storage associated with beans with the help of example(s). Discuss about its various types.   **(9)**

        b. What are the different types of bean properties? Explain the following property of beans using small code snippets:
        (i)   Simple property
        (ii) Indexed property.   **(9)**