Code: CS481   Subject: ADVANCED JAVA & INTERNET TECHNOLOGY

ALCCS – OLD SCHEME

Time: 3 Hours   **FEBRUARY 2012**   Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE:
- **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 an ISP? What are the services provided by ISP?

   b. What is HTML? Discuss about Table tag and other associated tags.

   c. Discuss use of invocation of repaint method in applet.

   d. Discuss about the concept of JINI.

   e. Write the steps to implement JDBC.

   f. Explain Jar Command and its various options.

   g. Differentiate between servlet and JSP.

Q.2   a. What is Internet? Discuss about its architecture and major governing bodies.

   b. Discuss about the following protocols of Internet.
      (i)   TCP/IP
      (ii) FTP
      (iii) SMTP   **(9+9)**

Q.3   a. What are applets? How is it different from a console application? Discuss about the life cycle of applet. Discuss about the use of update() as overridden method in applet programming.

   b. What is Socket? Discuss about the various important classes for implementation of socket in java. What are Datagrams? How these are different from sockets?   **(9+9)**

Q.4   a. What is Distributed application architecture?

   b. Discuss about various types of statement interfaces of JDBC. Write the use of callable statement using appropriate code snippet and database.   **(9+9)**

Q.5   a. Write a small program to create a bean. Discuss about the steps of deployment.

   b. Write short note on EJB. Discuss about different types of beans under EJB.   **(9+9)**

Q.6   a. Discuss about various scripting elements of JSP.

   b. What is Servlet? What are the advantage of Servlet over other technologies? Discuss about the servlet life cycle.   **(9+9)**

Q.7   a. What is generic servlet and how it is different from HttpServlet? Write a program to create a servlet using HttpServlet class that displays first 100 prime numbers.

   b. How session and cookies are managed by servlets?   **(9+9)**