Code: CS481   Subject: ADVANCED JAVA & INTERNET TECHNOLOGY

ALCCS – OLD SCHEME

Time: 3 Hours | **FEBRUARY 2013** | **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   a. What is difference between HTTP and S-HTTP? Explain in brief.

      b. What do you mean by Firewall? Explain different types of firewalls in brief.

      c. Explain Autoboxing and Unboxing with the help of an example.

      d. Discuss the different features of XML. Why do we use XML in interactive web applications?

      e. Write a Java Script function to validate user name.

      f. Discuss RMI Architecture and its different operations with the help of diagram.

      g. What are the methods that control an applet's on-screen appearance?   **(7×4)**

Q.2   a. What is HTML? How does it differ from DHTML? Also write five tags of HTML with their purpose.   **(9)**

      b. What is Cascade Style Sheet? Also discuss advantages of CSS over the inline Style.   **(9)**

Q.3   a. What are advantages and disadvantages of Java Sockets? Also Discuss the InetAddress class of java.net package.   **(9)**

      b. Why do we use UDP protocol in java? Also explain their supporting classes and methods.   **(9)**

Q.4   a. How can we implement a thread-safe JSP page? What are the advantages and disadvantages of using it?   **(9)**

      b. Write a RMI program that calculates greatest common divisor of two given numbers.   **(9)**

Q.5   a. What do you mean by CORBA? Discuss its different features.   **(9)**

b. How many different kinds of JDBC drivers are available? Explain each in brief.   **(9)**

Q.6   a. Discuss CallableStatemet interface in JAVA? Write a java program to retrieve all the records of a table using CallableStatement interface.   **(9)**

b. What are the purposes of introspection in Java Bean? Explain why is not a Bean an Applet?   **(9)**

Q.7   a. How can we create deadlock condition on our Servlet? What is difference between JSP and Servlet?   **(9)**

b. How do you implement an applet into a web page using applet tag? Write a Java program to play a music file.   **(9)**