

## ALCCS – (OLD SCHEME)

Code: CS481  
Time: 3 Hours

Subject: ADVANCED JAVA & INTERNET TECHNOLOGY

Max. Marks: 100

**MARCH 2011**

**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)**

- Discuss the role of RMI class loader.
- What are the difference between HTML and DHTML?
- Discuss the working principle of web search engines.
- What is CORBA? What are its applications? How is it related to RMI?
- What is the difference between doGet() and doPost() methods used in servlet?
- Write short note on BeanInfo interface.
- What is XML parsing? Define SAX parser.

**Q.2**

- What is S-HTTP? Define the component of S-HTTP? How S-HTTP is different from SSL. **(3+3+3)**
- What is CSS (Cascading Style Sheet)? Write CSS code for the following:
  - How to set background color of web page?
  - How to set space between characters?
  - A fixed background image (this image will not scroll with the rest of the page) **(3+6)**

**Q.3**

- What is VPN? How cost can be save using VPN? Discuss different type of tunneling and its protocol. **(2+3+4)**
- What is Socket? Why is it used? Write an HTTP client program by using socket class. **(3+6)**

**Q.4**

- What the JINI? Discuss about the complete service architecture of JINI system. **(3+6)**
- What are advantage and disadvantage of an applet? Create an applet to read a file from hard disk. **(3+6)**

- Q.5** a. Discuss the different type of JDBC driver using their internal structure. How many ways JDBC driver could be instantiated? **(7+2)**
- b. What is batch processing? Write a program using JDBC that can execute multiple SQL command simultaneously in following table :  
Emp(emp\_id(Integer), emp\_name(varchar), emp\_desi(varchar)) **(2+7)**
- Q.6** a. What is the role of EJB container? Define session bean and its type with the help their life cycle. **(2+7)**
- b. What is MIME type? Write a program to upload a file on server using JSP and Java Bean. **(2+7)**
- Q.7** a. What is XML? Discuss the structure of XML. Define the role of DTD in XML. **(3+3+3)**
- b. What is servlet filter? Create a servlet filter that prints the System IP address and system date and time. **(3+6)**