

ALCCS

Code: CS481
Time: 3 Hours

Subject: **ADVANCED JAVA & INTERNET TECHNOLOGY**
Max. Marks: 100

SEPTEMBER 2010

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 architecture of SSL protocol.
- Discuss the methods defined in HTTP protocol for sending data from HTTP Client to HTTP Server.
- What are the differences between java bean and enterprise java bean?
- Write a short note on virtual private network.
- What is DOM? Write a short note on DOM.
- Write a note on Hypertext and Hypermedia.
- Discuss various features of XML.

Q.2

- What are the differences between TCP and UDP? What are the APIs given in JAVA for implementing TCP and UDP? **(4+5)**
- What is URL? Explain the working of the URL class with the help of a sample JAVA program. **(2+3+4)**

Q.3 a. What is distributed computing environment? Why automatic Object Activation is required in distributed computing environment? How remote object transportation is implemented in RMI? **(2+3+4)**

- Write an example of RMI server and client program. **(3+6)**

Q.4 a. How many types of database driver available in JDBC? Discuss about them. **(9)**

- Write necessary steps for accessing database by using JDBC. Write a program for inserting a large text file in the database. **(3+6)**

Q.5 a. What is introspection? Write a sample Java Bean program. Also write a program for introspecting the bean component. **(2+3+4)**

- Write a program for developing a statefull EJB component. **(9)**

Q.6 a. What do you mean by Single Threaded Servlet? Write a servlet program which can accept a html form data and can load it on database. **(2+7)**

b. What are the APIs given in the Servlet package for managing Session? Discuss about them with skeleton code (2+7)

Q.7 a. What are the constituents of jsp? Discuss the role of servlet container for execution of servlet. (6+3)

b. Write a sample bean program. Write a jsp page for accessing the bean component. (3+6)