
ALCCS

FEBRUARY 2009**Code: CS481**
Time: 3 Hours**Subject: ADVANCED JAVA & INTERNET TECHNOLOGY**
Max. Marks: 100**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.
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Q.1**(7 x 4)**

- What are the differences between https and http.
- Discuss the advantages of servlet over CGI.
- What are the differences between web server and web services.
- What are the differences between servlet and applet?
- What is RPC? Write a short note on XML-based RPC.
- Discuss about the different type of JDBC drivers.
- Write short note on Virtual Private Network.

Q.2

- Discuss about the limitations of UDP protocol. Write program for developing Date-Time server and client by using DatagramPacket and DatagramSocket class. **(2+4+3)**
- Discuss the objectives of URL and URLConnection class of java.net package. Write a program for downloading an image file from http server. **(3+6)**

Q.3

- Discuss the objectives of JDBC. What are the advantages and disadvantages of type-4 driver over type-2 driver? **(3+6)**
- Write a program for inserting an image into a database. Write a program for inserting a long text file into a database table. **(4.5 *2)**

Q.4

- What do you mean by Context? Discuss about the objectives of ServletContext and AppletContext. **(3+3+3)**
- Write a servlet program for reading initial parameters from web.xml file. **(9)**

- Q.5** a. What do you mean by distributed computing? What are the technologies available for developing distributed computing environment? Discuss about the object Marshalling and unmarshalling. **(3+3+3)**

b. Design a RMI Server program for handling credit card operation. (6+3)

Q.6 a. What is EJB? How many different type of EJB components are available? Discuss the life cycle of Statefull session bean. (2+4+3)

b. Write a Simple bean component which has three properties length, width and height. Write a program for accessing the properties of the bean. (4+5)

Q.7 a. What is implicit object? Discuss about them. (2+7)

b. What do you mean by user defined tag library? Write necessary steps for tag library development in JSP. Write an example user defined tag library. (2+4+3)