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203602

May, 2019
B.Tech. (IT) - VI SEMESTER
ADVANCE CLIENT SERVER TECHNOLOGY
(IT-304C)

Time : 3 Hours]   [Max. Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*
4. *Assume suitable standard data wherever required, if not given.*

PART–A

1. (a) How is distributed computing better than centralized computing? (1.5)

   (b) How is Java, a machine independent language? (1.5)

   (c) What is the role of a JDBC driver? (1.5)

   (d) What is a metadata? (1.5)

   (e) What is the difference between Statement, Callable Statement and Prepared Statement? (1.5)

(f) What is a socket? (1.5)

(g) What is marshalling and unmarshalling? (1.5)

(h) How is stateless session beans different from stateful session beans? (1.5)

(i) Differentiate between Get() and Post() requests. (1.5)

(j) How does a skeleton differ from a stub? (1.5)

PART–B

2. (a) Explain the architecture of client-server communication model. Discuss its advantages and disadvantages. (10)

   (b) Explain scrollable and updatable result sets. (5)

3. (a) What are the ways to create threads in Java? Demonstrate an example of multithreading. (10)

   (b) Write a Java program to read the data from a URL. (5)

4. What is a servlet? Describe the life cycle of a servlet. Bring out the differences between the GenericServlet and HttpServlet. (15)

5. (a) Explain the working of JDBC-ODBC bridge driver. Write a program to connect to a database and perform some queries to retrieve the data from it. (10)

   (b) Write a short note on LDAP. (5)

6. (a) How can we implement a chat server using socket programming? Discuss some important methods available in Server Socket class. (10)

   (b) Discuss the transactional issues in Enterprise Java Beans. (5)

7. What is RMI? What are the steps required to create an RMI application. Give a suitable example to demonstrate the use of RMI. (15)

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