[6003]-388

T.E. (Electronics/E & TC)
ADVANCED JAVA PROGRAMMING
(2019 Pattern) (Semester - II) (Elective - II) (304195 C)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:
  1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, and Q.7 or Q.8.*
  2) *Figures to the right indicate full marks.*
  3) *Assume the suitable data, if necessary.*

Q1) a) What is Container Class in Java? Explain types of Java Swing Containers. **[6]**

   b) Write a short note on. **[6]**
      i) Hashing in java.
      ii) java. util Package.

   c) Distinguish between Array List and Vector in the Java collection framework. **[6]**

OR

Q2) a) Write a Program using swing Components to add two Use text Fields for inputs and output. Your Program should display the result when the user presses a button. **[10]**

   b) What are AWT component? Explain some AWT component. **[8]**

Q3) a) What is database connection? Explain how to connect any java application with the database using JDBC. **[9]**

   b) What is prepared Statement? Write a code that makes use of prepared Statement for inserting data. **[8]**

OR

Q4) a) What is JDBC? Explain driver types of JDBS. **[9]**

   b) Give the details of the Executing SQL commands. **[8]**

Q5) a) Compare between Stub and Skelton? Explain with neat diagram the RMI Architecture. **[9]**

   b) Develop an RMI application which accepts a string or a number and checks that string or number is palindrome or not. **[9]**

OR

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Q6) a) Explain in detail with necessary steps required to write distributed application with RMI. **[9]**

b) Define RMI and explain the architecture of RMI with suitable diagram. State the goals of RMI. **[9]**

Q7) a) What is TCP/IP client socket in JAVA? Discuss some methods of TCP/IP client socket class. **[7]**

b) Write a simple Java socket programming where client sends a text and server receives and prints it. **[10]**

OR

Q8) a) Explain datagram, Datagram Socket and Datagram packet. **[10]**

b) Explain in detail Life cycle of a Servlet? **[7]**

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