

Total No. of Questions : 8]

SEAT No. :

P309

[Total No. of Pages : 2

[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

P.T.O.

- 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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