Total No. of Questions : 8]

SEAT No. :

PF-4952

[Total No. of Pages : 2

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T.E. (E&TC/Electronics/Electronics & Communication Advanced Communication Technology)

ADVANCED JAVA PROGRAMMING

(2019 Pattern) (Semester - VI) (304195) (304311) (Elective-II)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates :

1) ***Solve Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.***
2) ***Figures to the right indicate full marks.***
3) ***Assume Suitable data if necessary.***

Q1) a) What are AWT components? Explain some AWT components. **[9]**

b) Develop a GUI which accepts the information regarding the marks of all subjects of a student in the examination. **[9]**

OR

Q2) a) Explain about Sets, Sequence and Map. **[9]**

b) Write a program which stores the list of strings in an ArrayList and then displays the contents of the list. **[9]**

Q3) a) Explain the execution of SQL commands while handling the database. **[8]**

b) Write a program to insert and retrieve the data from the database using JDBC. **[9]**

OR

Q4) a) What is Prepared Statement? Write a Java Program to insert Student Name and Branch Name into Student table using Prepared Statement. **[8]**

b) What is a JDBC? Explain Types of JDBC Driver. **[9]**

Q5) a) Explain the various methods of registering and gaining access to the remote object. **[9]**

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

P.T.O.

OR

Q6) a) Write a short note on : **[9]**

i) RMI Registry

ii) Naming and Directory Services

b) What is RMI? Explain with a neat diagram the RMI Architecture. **[9]**

Q7) a) Write a short note on : **[8]**

i) Java.net package

ii) Cookies

b) Explain InetAddress Class and factory method. Write a Java program to find the IP address of your machine. **[9]**

OR

Q8) a) What is servlet? Explain with a neat diagram Life cycle of a Servlet. **[8]**

b) Write a program to create a simple calculator application using servlet. **[9]**

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