

Total No. of Questions : 8]

SEAT No. :

PC-1770

[Total No. of Pages : 2

[6353]-88

T.E. (E & TC / Electronics)

ADVANCED JAVA PROGRAMMING

(2019 Pattern) (Semester - II) (304195 C) (Elective - II)

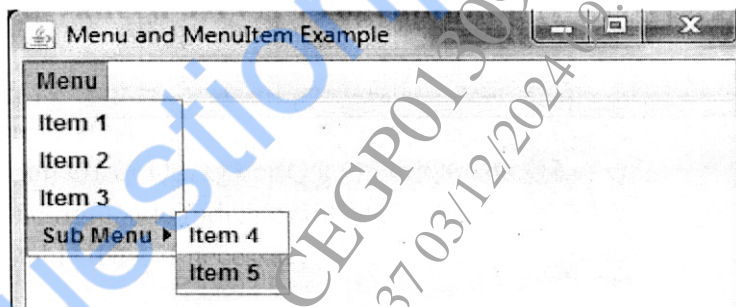
Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates :

- 1) Solve question Q1 or Q2, Q3 or Q4, Q5 or Q6 and Q7 or Q8.
- 2) Figures to the right side indicate full marks.
- 3) Assume suitable data, if necessary.

- Q1) a) What is a List interface? Differentiate between Array List & Vector. [9]  
b) Write a Java program for the following output using the concept of adding Menu to Window. [9]



OR

- Q2) a) Describe the collection framework in Java with the collection hierarchy. [9]  
b) Write a Java program for the following output using Java JTable. [9]

ID	NAME	SALARY
101	Amit	670000
102	Jai	780000
101	Sachin	700000

P.T.O.

**Q3) a)** Explain the types of statement in JDBC. Compare between prepared statement & Callable Statement? [8]

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

OR

**Q4) a)** Explain the JDBC architecture. Explain in detail the steps to establish a connection with a database using JDBC. [8]

b) Write a Java Program to Insert the details of Employee: Employee ID Number, Name, Age, Salary in to a Table using JDBC connection. [9]

**Q5) a)** Develop a RMI application which accepts a string and checks that string is palindrome or not. [9]

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

OR

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

i) RMI Remote Object Activation

ii) RMI Interfaces and Implementation.

b) Write a simple RMI application in which the client invokes the method of the server. [9]

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

i) Cookies

ii) Datagram

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

OR

**Q8) a)** What is Internet protocol? Differentiate between TCP and UDP. [8]

b) What is URL? Write a Java program to obtain the name of the protocol, port number, host name and file name of the URL. [9]

