

Total No. of Questions : 8]

SEAT No. :

P768

[Total No. of Pages : 2

[5870]-1074

T.E. (E & TC & Electronics)

ADVANCED JAVA PROGRAMMING

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

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, Q.7 or Q.8.
- 2) Figures to the right side indicate full marks.
- 3) Assume suitable data if necessary.

Q1) a) What is ArrayList in Java? Explain with example. [6]

b) Write a short note on : [6]

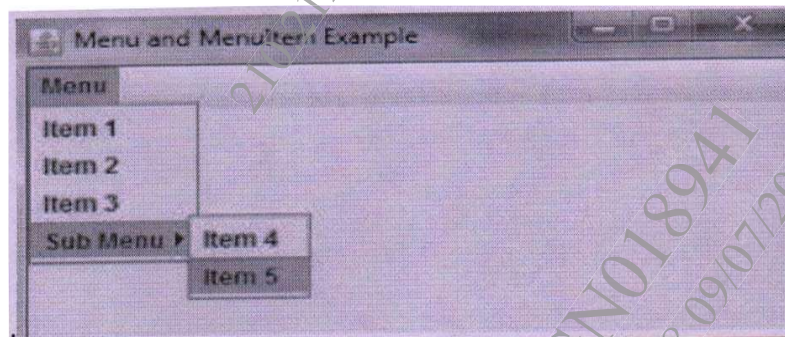
i) Border Layout

ii) Grid Layout

c) What are AWT component? Explain some AWT component. [6]

OR

Q2) a) Write a program to add Three Menu Item and One Sub Menu to Menu, add two MenuItem to SubMenu and add these components to Menubar. [10]



b) Write a short note on : [8]

i) Hashing in java

ii) Java.util Package

P.T.O.

- Q3)** a) What is JDBC? Explain driver types of JDBC. [9]  
b) Give the details of the Executing SQL commands. [8]  
OR
- Q4)** a) What is database connection? Explain how to connect any java application with the database using JDBC. [9]  
b) Give a brief explanation for executing queries. [8]
- Q5)** a) Define RMI and explain the architecture of RMI with suitable diagram. State the goals of RMI. [9]  
b) Explain the concept of stub, skeleton, parameter marshalling and un-marshalling in the context of RMI. [9]  
OR
- Q6)** a) Compare between Stub and Skelton? Explain with neat diagram the RMI Architecture. [9]  
b) Write a java program to perform addition of two numbers with Client/Server Application using RMI. [9]
- Q7)** a) Difference between Servlet and JSP. [5]  
b) Explain in brief what are cookies. [4]  
c) Explain Datagram, Datagram Socket and Datagram packet. [8]  
OR
- Q8)** a) Write a simple Java socket programming where client sends a text and server receives and prints it. [10]  
b) What is TCP/IP client socket in JAVA? Discuss some methods of TCP/IP client socket class. [7]

