MASTER OF SCIENCE (COMPUTER SCIENCE) (CBCS-2018 COURSE)
M.Sc. (Computer Science) Sem-II :SUMMER- 2022
SUBJECT : JAVA APPLICATION PROGRAMMING

Day : Thursday   Time : 03:00 PM-06:00 PM
Date : 7/7/2022   **S-20045-2022**   Max. Marks : 60

N.B.
1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.

Q.1 Write Java Socket Program that runs on Server, accepts a message from client **(15)** and returns Client's communication Port number. Also write Java Socket Program to display an appropriate message after connecting to Server.

OR

Elaborate the RMI architecture in detail. Also explain the concept of distributed computing using RMI.

Q.2 **A)** Answer **ANY ONE** of the following **(08)**

   i) Explain JDBC MetaData. Also explain transaction management in JDBC
   ii) Write a Java code to insert student details in "student" table by using PreparedStatement.

   B) Answer **ANY ONE** of the following **(07)**

   i) Draw and explain Model-View-Controller (MVC) Architecture. Discuss Struct application framework.
   ii) Elaborate various drivers used for JDBC.

Q.3 Answer **ANY THREE** of the following **(15)**

   a) Differentiate between TCP and UDP.
   b) What is savepoint in JDBC? Explain its importance.
   c) Write a program to use commit() and rollback() methods of Connect Object.
   d) Explain Scrollable ResultSet in JDBC.
   e) Explain the role of RRL in remote method invocation.

Q.4 Write a Note on (**ANY THREE**) **(15)**

   a) EJB

   b) Session Tracking

   c) Java Naming and Directory Interface (JNDI)

   d) HTTP Redirect

   e) J2EE

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