

**M. SC. (Computer Science) SEM – II (CBCS 2018 Course) :**

**SUMMER - 2019**

**SUBJECT : JAVA APPLICATION PROGRAMMING**

**Day :** Tuesday  
**Date :** 16/04/2019

**S-2019-1238**

**Time :** 03.00 PM TO 06.00 PM  
**Max. Marks :** 60

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
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**Q.1** Explain the six step execution of Remote Method Invocation (RMI). Write Java code to create Remote Method Invocation Application which provides the functionality of calculating area of circle. **(15)**

**OR**

Write Java Socket Program that runs on Server which accepts a message from client and returns Client's communication Port number. Also write Java Socket Program to display an appropriate message after connecting to Server.

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

- i) Write all steps involved in creating new database using JDBC and present an example to justify your answer.
- ii) Draw a block diagram of Model-View-Controller and explain the working with suitable example.

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

- i) Write Java code to insert employee details in "Emp" table by using PreparedStatement.
- ii) What are JSP directives? Explain any three in detail.

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

- a) How session tracking is done using Servlet?
- b) Write Java Code to display InetAddress of current system.
- c) Differentiate between EJB and Java Beans.
- d) Explain Struts Validation Framework in brief.
- e) What is Scrollable ResultSet?

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

- a) JDBC architecture
- b) Networking classes in JDK
- c) Callable Statement Object
- d) J2EE
- e) Transaction Management in JDBC

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