

8/5/2023 (6)

(i) Printed Pages : 2

Roll No. ....

(ii) Questions : 9

Sub. Code : 

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M.Sc. Information Technology 2<sup>nd</sup> Semester  
(2053)

## ADVANCE JAVA AND NETWORK PROGRAMMING

Paper : M.S.-45

Time Allowed : Three Hours]

[Maximum Marks : 80

**Note :—** Attempt *five* questions in all, selecting *one* question from each Unit (I–IV). Question No. IX is compulsory. All questions carry equal marks.

### UNIT—I

- I. (a) What is the order of Method Invocation in an Applet ? 8
- (b) What are the different types of AWT controls ? 8
- II. (a) What is a swing ? How do you add a label to a window ? What are the various methods and constructors of the J Label class ? 8
- (b) What is difference between Container and Component ? 8

### UNIT—II

- III. (a) What are the types of JDBC statements ? Explain. 8
- (b) Explain the difference between execute(), executeQuery() and execute Update( ) methods in JDBC. 8
- IV. (a) What is the main purpose of Distributed object applications in RMI ? 8
- (b) What is Remote Method invocation ? Explain the RMI architecture. 8

### UNIT—III

- V. (a) Name the different classes and interfaces that are part of javax.servlet package. Using an example, explain the steps for creating a servlet. 8
- (b) What are the steps for running a servlet ? 8
- VI. (a) Why is Java preferred for Networking ? 8
- (b) What is a datagram ? What is the purpose of datagramPacket and DatagramSocket ? 8

### UNIT—IV

- VII. (a) What is the purpose of introspection ? 8
- (b) What is EJB ? What are the types of Enterprise Bean ? What are its uses ? 8
- VIII (a) Explain JSP Architecture. 8
- (b) What are the JSP implicit objects ? What is the difference between include directive and include action ? 8
- IX. Compulsory Question:
- (a) What is DataSource in JDBC ?
- (b) What is a JAR file ?
- (c) What is the difference between scroll bar and scroll pane ?
- (d) What is the role of RequestDispatcher Interface in Servlet ?
- (e) What are JSP declarations ?
- (f) Which containers use a border Layout as their default layout ?
- (g) What is the difference between the >> and >>> operators ?
- (h) What is exception handling in Java ? 8×2