

(i) Printed Pages: 3

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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M.Sc. Information Technology 2nd Semester

1048

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 each from Units I, II, III & IV. Question no. **IX** is compulsory. All questions carry equal marks.

UNIT—I

- I. (a) What are the various layout managers provided in Java ? 8
- (b) How are events handled with named inner class ? 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 JLabel class ? 8
- (b) Discuss the various stages in applet life cycle. 8

UNIT—II

- III. (a) What is the purpose of PreparedStatement ? What are the steps involved in using the PreparedStatement ? 8
- (b) What is JDBC ? How does JDBC work ? 8
- IV. (a) What does java.sql package provide ? What is the purpose of javax.sql package ? 8
- (b) What is Remote method invocation ? Explain the member methods of Remote class. 8

UNIT—III

- V. (a) Write short notes on :
- (i) Socket class.
- (ii) Server Socket class. 8
- (b) Which classes are used for manipulating URLs ? 8
- VI. (a) What is a servlet ? Discuss the servlet request response cycle. 8
- (b) What is a datagram ? What is the purpose of datagramPacket and DatagramSocket ? 8

UNIT—IV

- VII. (a) What is Bean ? Why isn't a Bean an Applet ? 8
- (b) Is JavaBean a complete component architecture ? Comment. 8
- VIII. (a) Explain JSP technology. 8
- (b) Explain implicit objects in JSP. 8

IX. Compulsory Question :

- (a) What is servlet chaining ?
- (b) Who loads the `init()` method of a servlet ?
- (c) Differentiate between swing and AWT.
- (d) When do you use codebase in applet ?
- (e) What is an applet ?
- (f) How do you add a comment on a JSP page ?
- (g) Name two packages that are part of JDBC.
- (h) What is the difference between a window and a frame ?

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