

## Adv. Java

Q.P. Code : 12784

( 2½ Hours)

[ Total Marks :75

- N.B. :
- (1) All questions are compulsory.
  - (2) Figures to the right indicate full marks.
  - (3) Illustrations in-depth answers and diagrams will be appreciated.
  - (4) Mixing of sub-questions is not allowed.

1. Attempt the following (Any Three):

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- (A) Explain any five features of JFC in brief.
- (B) Explain the role of the following two classes along with any two methods of them:
  - (i) JFrame
  - (ii) JPanel
- (C) What is the use of JTabbedPane ? How to create it ? Explain with code snippet.
- (D) Explain any three Text-Entry components.
- (E) Write a Java program to create JFrame containing JDesktopPane which has a single JInternal Frame.
- (F) Write a java program containing a combo box and an non-editable text field. The combo box should contain list of at least 3 states of India. When any state is selected, the capital of that state should be displayed in the text field.

2. Attempt the following (Any Three):

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- (A) What is the use of JTree ? Explain any four classes or interfaces to create a JTree.
- (B) Write a brief note on Java Print Service API.
- (C) Explain life cycle of a Thread.
- (D) Explain the methods used for communicating between threads.
- (E) Write a swing program which adds JToolBar to a JFrame. ToolBar object includes three buttons on it.
- (F) Write a program in Java to display clockwise spinning of a single line on a button click.

3. Attempt the following (Any Three):

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- (A) Write a short note on any two drivers of JDBC.
- (B) State and explain any two exception classes related to JDBC.
- (C) Explain with an example how a stored procedure can be called from JDBC.
- (D) Explain the role of the following two interfaces along with any two method of them:
  - (i) ResultSet
  - (ii) ResultSetMetaData

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- (E) Write a JDBC program to accept a table name from the user and display total number of records present in it.
- (F) Write a JDBC program to accept the roll no of a student and find the student in the table and display the student's name.

4. Attempt the following (Any Three):

- (A) State the role of InetAddress class and Explain its any four static methods.
- (B) What is URLConnection class. Explain its any four methods.
- (C) Explain socket class with any two constructors and three methods.
- (D) Write a short note on RMI architecture.
- (E) Write a Java program to download and display the content of <http://www.msn.com/index.html> file on the screen.
- (F) Write RMI implementation class containing a method reverse which finds the reverse of number.

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5. Attempt the following (Any Three):

- (A) Write a short note on JOptionPane.
- (B) How to synchronize a thread ? Explain with example.
- (C) Explain with example how is create and use PreparedStatement.
- (D) Write a short note on Socket Direct Protocol.
- (E) Explain the use of following classes/interfaces:
  - (i) Remote
  - (ii) Naming
- (F) What is network interface ? How can network information be retrieved.

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