

314317

25226

3 Hours / 70 Marks

Seat No. 

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- Instructions* – (1) All Questions are *Compulsory*.  
(2) Answer each next main Question on a new page.  
(3) Illustrate your answers with neat sketches wherever necessary.  
(4) Figures to the right indicate full marks.  
(5) Assume suitable data, if necessary.  
(6) Use of Non-programmable Electronic Pocket Calculator is permissible.  
(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

1. Attempt any FIVE of the following : 10
- a) List features of Java Programming.
  - b) State JDBC and ODBC.
  - c) Define exception in Java.
  - d) Define class and object, with an example.
  - e) List the different types of JDBC drivers.
  - f) List and explain any two types of Java packages.
  - g) State types of errors.

P.T.O.

- 2. Attempt any THREE of the following : 12**
- a) Explain data types in Java with examples
  - b) Explain method overriding with suitable example.
  - c) Explain try, catch, and finally blocks with example.
  - d) Write a program to create a Frame with a Button and handle button click event.
- 3. Attempt any THREE of the following : 12**
- a) Explain any four methods of URLConnection with example.
  - b) Describe inheritance in Java with simple diagram.
  - c) Describe the different thread states with diagrams.
  - d) Define layout managers in Java AWT. List and briefly explain any two.
- 4. Attempt any THREE of the following : 12**
- a) Write a simple program for a TCP client-server communication.
  - b) What are custom exceptions? Write a simple custom exception class.
  - c) Explain the concept of event-driven programming with an example.
  - d) Write a JDBC program to fetch data from a database.
  - e) Describe the concept of variables and constants in Java.

**5. Attempt any TWO of the following : 12**

- a) Write a sample program to demonstrate the use of operators in Java.
- b) Write a Swing program to show a simple J Frame with J Combobox.
- c) Explain JDBC Architecture with diagram.

**6. Attempt any TWO of the following : 12**

- a) Write a program to demonstrate the creation of a package and its usage.
  - b) Write a program to create JFrame that includes JTable.
  - c) Write a program to demonstrate the use of InetAddress class in Java.
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