

314317

12526

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 answer with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Assume suitable data, if necessary.
- (6) 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) State two uses of super keyword.
- b) Differentiate between statement and prepared statement. (Any two points)
- c) Define event and listener.
- d) Write any two static methods of InetAddress class with its syntax and use.
- e) Differentiate between Vector and array. (Any two points)
- f) Define Synchronization with respect to thread.
- g) List any four features of Java.

P.T.O.

- 2. Attempt any THREE of the following: 12**
- a) Define type casting. Explain its types with example.
 - b) Describe life cycle of thread with neat diagram.
 - c) Write a program to display the protocol, host, port and file of URL (Accept URL from user).
 - d) Differentiate between AWT and swing (Any four points).
- 3. Attempt any THREE of the following: 12**
- a) Explain garbage collection concept in Java.
 - b) Describe creating a thread by extending 'Thread' class with one example.
 - c) Explain process to create and access user defined package in Java with example.
 - d) Write a program to demonstrate the use of Grid layout.
- 4. Attempt any THREE of the following: 12**
- a) Explain uses of 'Final' keyword with example. (Any two points)
 - b) Write a program to list the empno, ename and salary of five employees using J Table.
 - c) Write a program using URL and URL connection class to retrieve the date content type, content of any entered URL.
 - d) Write a program to change the background colour of applet to red when user clicks the 'Change color' button.
 - e) Explain JDBC three tier architecture.

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

- a) Write a program to display the details of all students having percentage greater than 75 (use prepared statement) Consider the details :

Student (rollno, sname, branchcode, perc)

- b) Write a program to implement the following :-

- i) Accept string from user.
- ii) Display position of "is" in the string.
- iii) Display substring from position 4 to 9.
- iv) Display character at the position 5.
- v) Display the string in upper case.
- vi) Reverse the string and sdisplay it.

- c) Write a program to throw "NomatchException", if the string entered by the user is not "India".

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

- a) Write a program to demonstrate use of interface.
 - b) Write a program to accept two numbers in Textfield and display their product in a third Textfield when the user checks "Multiply" button.
 - c) Write a program using UDP communication for Login Authentication.
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