Total No. of Questions :5]   *[Total No. of Printed Pages :3*

Roll No ....

IT - 505

B.E. V Semester

Examination, June 2015

Java Programming

Time : Three Hours

Maximum Marks : 70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each questions are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

1. a) What is the use of new operator and finalize method in java? Explain with example.

   b) How polymorphism is supported in java? Describe the different types of polymorphism.

   c) Explain the concept of multiple inheritance using interfaces with example.

   d) What do you mean by access specifier and why they are used? How they affect the life and scope of variable in any program. Explain with example.

   OR

   Explain interfaces in java. Is it possible to extend an interface? Illustrate with example.

Unit - II

2. a) What do you understand by event handling?
   b) Explain the lifecycle of Applet with example.
   c) Write a program to display all the fonts available for your system in awt.
   d) Explain the following :
      i) Grid layout and border layout
      ii) setVisible(boolean) and setEnabled(boolean) method
      iii) Textarea and Textfield
      iv) Frame and canvas

OR

Write a program using swing which has the following fields:
   i) A form having username and graduation degree.
   ii) Field to enter address
   iii) Select branches from a list and add them to another list on the basis of their preferences.
   iv) A button for submission.

Unit - III

3. a) Explain the lifecycle of a thread in java.
   b) Differentiate throw and throws keyword in exception handling.
   c) Explain thread priority, multitasking threads and applications of thread in real time.
   d) What is thread synchronization and how it is achieved in java?

OR

What do you understand by Daemon Thread? WAP to show the execution of multiple tasks using a single thread.

Unit - IV

4. a) Explain stream with its type.
   b) What is the use of DeflaterOutputStream, InflaterInputStream?
   c) What are the different methods used to register a driver for connecting it to database?
   d) What are the various steps of JDBC? WAP to connect to the oracle database using JDBC-ODBC bridge driver.

OR

WAP to write data in a file then read the data from same file and display it in reverse order.

Unit - V

5. a) What are the benefits of TCP over UDP?
   b) Differentiate DatagramPacket and DatagramSocket.
   c) Explain stub and skeleton.
   d) WAP to show two way communication between sender and receiver such that the server will authenticate the client on the basis of password entered by him and if user is authenticated then him any WELCOME message.

OR

Explain :
   i) RMI registry
   ii) Remote Exception
   iii) Proxy server
   iv) Reserved server

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