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Total No. of Questions :5]

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Roll No

MCA - 405(A) MCA. IV Semester

Examination, June 2015

Java Programming and Technology (Elective-I)

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 question 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) Explain the history of Java and also discuss its features.
 - b) Compare Java with C++.
 - c) Explain about inheritance in Java.
 - d) What is constructor? Write a program to demonstrate the working of copy constructor.

OR

Explain the following:

- i) This pointer
- ii) Abstract classes.

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Unit - II

- 2. a) What is interface? Why is it needed?
 - b) Differentiate between abstract class and interface.
 - c) Define multithreaded programming.
 - d) What is exception handling? Write a program to throw and handle an exception created by you.

OR

Explain about complete life cycle of a thread.

Unit - III

- a) Explain about AWT event hierarchy.
 - b) Differentiate between applet and application program.
 - c) Explain about applet lifecycle. How applets are prepared and executed?
 - d) What are the major component of Java event delegation model? Explain the working of event delegation model by giving suitable example.

OR

What is an applet? Write an applet "clicker" that displays a button and a text field on the screen. The text field must display the number of times the button is pressed.

Unit - IV

- 4. a) Briefly describe the different input and output streams.
 - b) Differentiate between buffered reader and buffered writer.
 - c) What is object serialization? Briefly explain.

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d) What is meant by Stream? What are the types of streams and classes? Explain in detail.

OR

What are the character of JDBC? What are the various steps for using JDBC? Write a program to demonstrate these steps.

Unit - V

- 5. a) Discuss the purpose of collection framework.
 - b) What is proxy server? Explain.
 - c) Briefly write the steps to create RMZ applications.
 - d) What is RMZ? Write a program to involve a remote method using Java RMZ.

OR

What do you understand by socket? What is the difference between TCP and UDP socket?
