

Roll No

MCA - 405 (A)
M.C.A. IV Semester
Examination, December 2014
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) What are the roles of Java compiler and Java Interpreter? What is the task of main method in Java Program?
- b) What is the role of CLASSPATH variable?
- c) Explain component of Java Platform.

OR

Explain how multiple inheritance can be achieved in Java.

Unit- II

2. a) Explain the purpose of throws keyword.
- b) "A try block must have a catch block". State true or false and justify.
- c) What is an interface? How is it created?
- d) Explain concept of multithreading with example.

OR

What is an exception? What are their types? Explain how user defined exception classes can be created.

Unit - III

3. a) How can we pass parameters to an Applet?
- b) What is adapter class explain?
- c) List any four methods of the MouseListener interface.
- d) Explain in brief the event-handling mechanism in Java with the suitable example.

OR

Write a program to implement Drag and Drop in AWT.

Unit - IV

- 4.a) State difference between InputStream class and OutputStream class.
- b) What are the basic stream types supported by Java?
- c) What is the difference between String and StringBuffer class?
- d) What are the seven basic steps for using JDBC to access database? Explain briefly with syntax.

OR

Write a Java program which accepts a file name as command line argument and finds the length of the longest line. Display error message if file does not exist.

Unit . V

- 5.a) Explain the steps to write TCP socket. Write steps to create RMI applications.
- b) Differentiate between Collection interface and Collection classes.
- c) What do you understand by socket. Explain with the help of suitable example?

OR

What is distributed computing? Explain it with reference to RMI.