

MCA/M- 13
PROGRAMMING IN JAVA
Paper- MCA- 403

Time allowed : 3 hours [*Maximum marks : 80*]

Note : Attempt five questions in all, selecting at least one question from each unit.

. Question No. 1 is compulsory.

1.
 - (a) Discuss final, finally and finalize with example.
 - (b) What are the various wrapper classes in java ?
 - (c) Can we achieve multiple inheritance in JAVA? Discuss with your own Example.
 - (d) What is the use of super and this keywords?
 - (e) What is instance of operator?
 - (f) How can you pass parameters to an applet?
 - (g) What are the various graphics functions in applet?
 - (h) What is JAVA Servlet?

UNIT-I

2. Explain various ways of code reusability in java.
3.
 - (a) Write java program to find the average of 20 inputted command line Arguments.
 - (b) Write java program to find the greatest among three integers.

UNIT-II

4. What do you mean by architectural neutrality of JAVA language? Discuss the Elements of JDK.
5. Write program to find the area of rectangle using:
 - (a) Package
 - (b) Constructor overloading
 - (c) Inheritance.

UNIT-III

6. Write an applet program to find SUM, DIFF and DIV of two integers while Pressing the appropriate BUTTON. Input and Output must be reflected in text fields.
7. What is applet life cycle? Write your own program that includes all the life Cycle methods and generate their respective output.

UNIT-IV

8. Write an applet program to drag a line. Line must also be visible while dragging.
9. Write java applet code to demonstrate the function of calculator.

