

MCAE/D-21
PROGRAMMING IN JAVA
Paper–MCA-20-11

24020

Time Allowed : 3 Hours]

[Maximum Marks : 75

Note : Attempt **five** questions in all, selecting **one** question from each Unit.
Question No. **1** is compulsory. All questions carry equal marks.

Compulsory Question

1. Differentiate the followings:
 - (i) Finally and finalize
 - (ii) “Super” and “This” keywords
 - (iii) Local and Remote Applets
 - (iv) Class and Interlace
 - (v) Byte Stream and Character Stream
 - (vi) Applet and Servlet.

UNIT-I

2. What do you mean by reusability of code? How you can achieve code reusability in JAVA. Explain by taking suitable examples.
3. Write Java code to find the area of rectangle using the concept of :
 - (a) Object
 - (b) Inheritance
 - (c) Overloading.

UNIT-II

4. (a) Differentiate Multiple and Multilevel Inheritance? Can we achieve Multiple Inheritance in JAVA ? Justify your answer.
(b) Write JAVA code to find the area of a rectangle using the concept of package.
5. (a) What is the advantage of Multithreading in Java? Explain thread synchronization and thread suspension.

- (b) Can we use Multiple Catch blocks in Exception Handling? Justify your answer.

UNIT-III

6. Write Applet program to draw Line and circle.
7. What are different stream classes in JAVA? Write program to read the characters from a text file and count the total characters in the File.

UNIT-IV

8. Write Applet code to design calculator using Layout manager and proper working of “+” “-” and “/” Buttons.
9. What are AWT Classes? Explain various features of AWT classes in details. Write Java Program to generate Even numbers in TextField “T” while pressing Button “CLICK.”

