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Roll No .....

## MCADD-704 (1)

### M.C.A. (Integrated) VII Semester

Examination, November 2023

### Programming in Java-I

(Elective - I)

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.  
ii) All questions carry equal marks.

1. a) What do you understand by Object Oriented Programming? Discuss OOP's concept.  
b) Discuss identifiers, variables and constants in Java. Also explain primitive data types in Java.
2. a) Discuss constructors in Java. Explain method overloading in Java.  
b) What is Inheritance? Discuss different types of inheritance used in Java with suitable program.
3. a) What is Exception? Explain different type of exception in Java.  
b) What is Package? How to access a package from another package?
4. a) What is Applet? Discuss class hierarchy for applets and life cycle of applet.  
b) Define overloading. Explain method overloading and constructor overloading with suitable examples.

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5. a) Discuss JDBC exception classes. Explain java.sql package.  
b) What is socket in Java? Discuss TCP and UDP socket in Java.
6. a) What is a literal in Java? Explain numeric and character literals with suitable java program.  
b) Differentiate between String Buffer and StringBuilder class in Java.
7. a) Discuss Serialization API and Serialization Engine in detail.  
b) What is Java Layout Managers? Discuss java.awt.Border Layout and javax.swing.Box Layout.
8. Write short notes on any two of the following:
  - a) RMI
  - b) JVM
  - c) ODBC

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