

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No

MCADD-704 (1)

M.C.A. (Integrated) VII Semester

Examination, May 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 is Java virtual machine? Discuss features of Java.
b) What is the structure of JDK and JRE directory in Java?
2. a) What is Polymorphism? Explain with suitable program in Java.
b) Explain interface and abstract class. Also discuss how interface is defined and implemented in Java.
3. a) What is thread? Discuss different thread states in detail.
b) What is serialization and serializable interface? Explain java.io.Serializable interface in detail.
4. a) Define Applet. Differentiate between buffered reader and buffered writer.
b) Explain java event handling model. Also discuss the event class hierarchy.

[2]

5.
 - a) Explain the concept of JDBC with suitable example.
 - b) What is RMI? Discuss RMI registry services and steps of creating RMI.

6.
 - a) What are different types of operators used in Java? Explain string and Boolean literals with suitable java program.
 - b) What is method overloading in java? Why method overloading is not possible by changing the return type of method only?

7.
 - a) What is Errors? Discuss runtime exceptions in Java.
 - b) What is Thread in java? Discuss java thread methods in detail.

8. Write short notes on any two of the following:
 - a) Garbage collection in Java
 - b) System.out.println() in Java
 - c) Swing class
