

*Total No. of Questions : 8]*

*[Total No. of Printed Pages : 2*

Roll No .....

**MCADD-704 (1)**  
**M.C.A. (Integrated) VII Semester**  
Examination, May 2022  
**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 are the features of Java? Explain each.  
b) Write short notes on the conditional and looping structures available in Java with suitable syntax and examples.
2. a) What is data hiding? Will Java support for data hiding? Justify with an example.  
b) Write short notes on Applet Life Cycle. Write a program on applet life cycle.
3. a) Define overloading. Explain method overloading and constructor overloading with suitable examples.  
b) How you are preventing a class to be inherited by the other class? Explain with an example program.

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4. a) Explain briefly about the Exception handling mechanisms in Java with appropriate examples for each.  
b) In how many ways you can create threads? Explain each with suitable example program.
5. a) What is serialization? Explain how you implement serialization while writing data to a file?  
b) Write short notes on Layout managers with example for each.
6. a) What is interface? Explain it with a program.  
b) Distinguish between File Reader and File Writer.
7. a) Explain the different types of JDBC drivers.  
b) Explain the steps for creating RMI application using an example.
8. Write short Notes on Any Two:
  - a) Buffered Reader Class
  - b) String Buffer Class
  - c) RMI registry services
  - d) TCP Sockets

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