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**I Semester M.C.A. Degree Examination, May/June - 2025****COMPUTER APPLICATIONS****Object Oriented Programming****(CBCS Y2K21 Scheme)****Paper : 1MCA5****Time : 3 Hours****Maximum Marks : 70****Instructions to Candidates :**

Answer all the Sections.

**SECTION - A**Answer any **Five** questions. Each question carries **6** marks.**(5×6=30)**

1. Define Inheritance. Explain the types of Inheritance
2. Explain constructors in Java with example.
3. Explain runtime polymorphism with example program.
4. What is a package? Explain how to create and execute user defined package.
5. Write a Java program to demonstrate string class and string methods.
6. Write a note on Applet Life Cycle.
7. Define final variable, final method and final class with example.
8. Explain five methods of graphics class with examples.

**SECTION - B**Answer any **Four** questions. Each question carries **10** marks.**(4×10=40)**

9. Explain features of Java Language.
10. Explain the ways of creating threads in Java
11. Explain exception handling in Java.
12. With Neat diagram briefly explain Life cycle of a thread.
13. a) Write a Java program to demonstrate static member data and static member methods.  
b) Explain character stream and byte stream classes. **(5+5)**
14. Write a short notes on:  
a) Method overloading and method overriding.  
b) Arrays and Types of Arrays. **(5+5)**