



PG – 370

**I Semester M.C.A. (Two Years Course) Examination, June/July 2024  
(CBCS) (2020-2021 and Onwards)**

**COMPUTER SCIENCE**

**1MCA5 : Object Oriented Programming**

Time : 3 Hours

Max. Marks : 70

**Instruction : Answer any 5 from Section – A and any 4 from Section – B.**

**SECTION – A**

Answer **any five** questions. **Each** carries **six** marks. **(5×6=30)**

1. Explain the principles of object oriented programming.
2. Explain the categories of operators in Java.
3. Write a note on static methods and static variables.
4. What is abstract class ? Explain with example.
5. What is a package ? Explain in detail how to create and use user-defined package.
6. What is the significance of exception handling ? Explain the keywords associated with exception handling.
7. What is AWT ? Explain the methods of graphics class.
8. What are the stream classes for reading and writing into files ?

**SECTION – B**

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

9. Discuss in detail about
  - i) Extending the thread class
  - ii) Thread synchronization.
10. Write a program for accepting a string from user and perform length, concatenation, substring and replacement operations on the string using methods of string class.

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11. Write a note on (give example)
- a) Method overriding 5
  - b) Method overloading. 5
12. What is inheritance ? List and explain types of inheritance supported by Java.
13. a) What are applets ? Write a program for creating an applet. 5
- b) Write a program to copy contents of one file to another. 5
14. Write a short note on :
- a) Static import 5
  - b) Advantages and limitations of Object Oriented Programming. 5
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