I Semester M.C.A. (Two Years Course) Degree Examination, May/June 2025
(CBCS) (2020 – 21 and Onwards)
COMPUTER SCIENCE
1MCA5 : Object Oriented Programming

Time : 3 Hours   Max. Marks : 70

Instructions : 1) *Answer the questions from **both** Parts.*
                        2) *Answer **any 5** questions from Part – **A**.*
                        3) *Answer **any 4** questions from Part – **B**.*

PART – A

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

1. What are the paradigms of OOP ? Explain the concept of encapsulation and inheritance with example.

2. Explain final keyword and all its uses with examples.

3. Explain object slicing, object type casting with examples.

4. Write a program to read and write a file using the Java stream classes.

5. What is an array ? Explain the arrays in Java. Write a program for array of objects.

6. Write in detail about interface. Explain how to implement interface, extend interface using syntax and example.

7. What is a thread ? Explain methods of thread class.

8. What is an applet ? Explain its life cycle with example.

PART – B

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

9. What are the buzz words of Java ?

10. Write a Java program to illustrate static member data and static member methods.

P.T.O.

11. Write a Java program to search for a string in a list of strings and also provide code segment to sort a list of strings.

12. a) What are local classes and anonymous classes ? 5

    b) Write a note on AWT and Graphics class. 5

13. What is JVM ? Explain JDK, JRE in detail.

14. What is an abstract class ? Explain with an example. Also differentiate abstract classes with interfaces.

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