**I Semester M.C.A. (2 Years Course) Degree
Examination, August/September 2021
(CBCS)
(2020-2021 and Onwards)
COMPUTER SCIENCE
1MCA5 : Object Oriented Programming**

Time : 3 Hours

Max. Marks : 70

Instruction : *Answer* **any five** *from Section –* **A** *and* **any four** *from
Section –* **B**.

SECTION – A

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

1. Define encapsulation and inheritance. Explain the purpose of 'this' and 'super' keyword in Java with example.

2. Explain different looping structures in Java.

3. Write a note on abstract method and abstract class.

4. What is a package ? Explain user defined package with example.

5. Explain final variable, final method and final class with example.

6. Write a Java program to read and write data to a file.

7. Write a note on Applet Life Cycle.

8. Explain five methods of graphics class with example.

SECTION – B

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

9. Explain salient features of Java language.   **10**

10. What is a constructor ? Explain constructor overloading with an example program.   **10**

P.T.O.

11. Define different types of inheritance. Explain how Java achieves multiple inheritance with an example. **10**

12. Explain life cycle of a thread with a neat diagram. **10**

13. What is an exception ? Explain how exception handling is achieved in Java. **10**

14. Write a note on :

    a) Static variable and static methods. **5**

    b) Stream classes. **5**

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