62455

Reg. No. ☐☐☐☐☐☐☐☐

I Semester M.C.A. Degree Examination, July- 2022
COMPUTER SCIENCE
Object Oriented Programming
(CBCS Scheme)
Paper: 1MCA5

Time : 3 Hours   Maximum Marks : 70

Instructions to Candidates: 1.   Answer any Five questions from Section A, each carries Six marks.

2.   Answer any Four from Section B, each carries Ten marks.

SECTION - A

I.   Answer any Five questions. Each question carries Six marks.   (5×6=30)

1.   Explain the different features of JAVA.   (6)

2.   Write syntax for switch... case and illustrate switch to display First class if choice=1, Second class if choice=2 and Pass class if choice=3.   (6)

3.   Explain runtime polymorphism with Java programming example.   (6)

4.   Define interface and explain with Java programming example.   (6)

5.   What is the use of super keyword in Java? Explain with example.   (6)

6.   Write a JAVA program to demonstrate String class and its methods.   (6)

7.   Explain the life cycle of a Thread.   (6)

8.   Define final variable, final method and final class with example.   (6)

SECTION - B

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

9. a) Explain the structure of Java program with example.

   b) Why Java is called platform independent language? Justify. (5+5)

10. a) Explain different types of Constructor with example.

    b) Discuss abstract class in Java? (5+5)

11. Define inheritance. Explain different types of inheritance with example. (10)

12. a) Write the steps to create and access package and give the example program.

    b) Explain exception bandling mechanism in JAVA. (5+5)

13. a) What are the different methods to create thread and Give examples.

    b) Explain character stream and byte stream classes. (5+5)

14. a) Write a JAVA program to demonstrate static member data and static member methods.

    b) Write the difference between method overloading and overriding. (5+5)