PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2024
(Third Semester)

Branch – **SOFTWARE SYSTEMS** (five year integrated)

PROGRAMMING IN JAVA

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks   (5 x 1 = 5)

1) The data, or variables, defined within a class are called _____ variables.
    a) object   b) class   c) instance   d) schema

2) You would use the ____ operator to create a single instance of a named class.
    a) new   b) dot   c) equals   d) <>

3) What is the default thread at the time of starting the program?
    a) Main Thread   b) Thread Group   c) Child Thread   d) Thread Pool

4) What are the part in executing a Java program and their purposes?
    a) Java Compiler   b) Java Interpreter
    c) Java Pre-processor   d) Directive Pre-processor

5) A class can be converted to a thread by implementing the interface ___.
    a) thread   b) runnable   c) start   d) yield

SECTION-B (15 MARKS)
Answer **ALL** the Questions
ALL Questions Carries **EQUAL** Marks   (5 X 3 = 15)

6) a) What are objects? How are they created from a class? Explain.
                OR
   b) Elaborate the various types of arrays in java.

7) a) Summarize the use of import statements in packages.
                OR
   b) Illustrate the purpose of java built-in exception.

8) a) Write a java program to arrange the given set of names in alphabetical order.
                OR
   b) Outline the basic concept of deadlock.

9) a) State the read console input and write console output in Java.
                OR
   b) Discuss the advantages of swing.

10) a) Show the generics of J2SE V5.0.

OR

b) Determine the declaration of list in J2SE.

SECTION-C (30 Marks)
Answer ALL questions
ALL Questions Carries EQUAL Marks   (5 X 6 = 30)

11) a) Compare the arithmetic and bitwise operators in java with example.

OR

b) Enumerate the multi-dimensional array in java.

12) a) Discuss the exception handling mechanism can be used in a program.

OR

b) Examine the nested try statements with simple example.

13) a) Identify the methods used in java thread model.

OR

b) Analyze the thread class and runnable interface.

14) a) Write a java program to find the factorial value of the given number.

OR

b) Assume the GUI components of applet.

15) a) Elucidate the declaration of arrays in J2SE.

OR

b) Determine the methods to create a vector with example.

Z-Z-Z   END