PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2023
(Third Semester)

Branch - **COMPUTER SCIENCE WITH DATA ANALYTICS**

OBJECT ORIENTED PROGRAMMING USING JAVA

Time: Three Hours   Maximum: 50 Marks

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

1. Which one of the following is not a Java feature?
a) Object-oriented
b) Use of pointers
c) Portable
d) Dynamic and Extensible

2. Which of these is correct way of inheriting class A by class B?
a) class B + class A {}
b) class B inherits class A {}
c) class B extends A {}
d) class B extends class A [ ]

3. Thread priority in Java is?
a) Integer
b) Float
c) double
d) long

4. Which of these keywords is used to define packages in Java?
a) pkg
b) Pkg
c) package
d) Package

5. Which of these packages contains all the classes and methods required for even handling in Java?
a) java.applet
b) java.awt
c) java.event
d) java.awt.event

SECTION - B (15 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks   (5 x 3 = 15)

6(a)   Write about the variable types that a class can contain in JAVA.
                                    (or)
  (b)   Give the usage of this keyword in JAVA.

7 (a)   Illustrate multilevel inheritance with a JAVA program.

(or)

(b)   Why abstract class is used? Explain.

8(a)   Interpret the advantages of threads in JAVA.

(or)

(b)   Comment on the string tokenizer class.

9(a)   Give the advantage of using packages in JAVA.

(or)

(b)   Illustrate on implementing multiple inheritance using interface in JAVA.

10(a)   Give a note on Event classes and its listener interfaces.

(or)

b)   Brief on the advantages of adapter classes.

SECTION -C (30 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks   (5 x 6 = 30)

11(a)   List and explain the features of JAVA.

(or)

(b)   Discuss about primitive data types of JAVA.

12(a)   Illustrate the task of Exception handling mechanism using try-----catch block in Java.

(or)

(b)   Illustrate JAVA exception handling.

13(a)   Explicate the thread life cycle in JAVA.

(or)

(b) Write a JAVA program to check the given string is palindrome or not.

14(a)   Write a Java program to create an interface Shape with the getArea() method. Create three classes Rectangle, Circle, and Triangle that implement the Shape interface. Implement the getArea() method for each of the three classes.

(or)

(b) Create a Simple Banner using Applet in Java

15(a)   Demonstrate Java event handling by implementing Action Listener

(or)

(b)   Explain in detail about JAVA swing and its details.

Z-Z-Z   END