

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATIONS DECEMBER 2023
(Third Semester)

Branch – COMPUTER SCIENCE

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. What will be the output of the following Program?

```
public class Test{  
    public static void main(String args[]){  
        int i;  
        for(i = 1; i < 6; i++){  
            if(i > 3) continue ;  
        }  
        System.out.println(i);  
    } }  
}
```

- (a) 1 (b) 3 (c) 6 (d) 4

2. Which is a superclass of all exception classes?

(a) Throwable (b) Exception (c) RuntimeException (d) IOException

3. Which of these method wakes up all the threads?

(a) wakeAll() (b) notify() (c) start() (d) notifyAll()

4. A ____ is a Swing framework component that offers a scroll bar that may be used to scroll content in a container.

(a) JScrollPanel (b) JScrollBar (c) JScroll (d) JScrollBar

5. Which of the following is not a valid statement in JDBC?

(a) Statement (b) PreparedStatement
(c) QueryStatement (d) CallableStatement

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

11. (a) Narrate the process to create an object and assign object reference.

(OR)

(b) Explain the uses of Abstract class. Give examples.

12. (a) Analyze the steps to import Packages in Java.

(OR)

(b) Build a Java Program to implement the concept of Interface.

Cont...

13. (a) Brief about isAlive() and join() in thread concept with example.
(OR)
(b) Explain the string comparison and searching functions in Java.
14. (a) Highlight the use of JList. Give example.
(OR)
(b) Write any three methods from Character Stream classes.
15. (a) Comment on Stream API with example.
(OR)
(b) Analyze the ways to execute SQL statements.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

16. (a) Elaborate on Inheritance in Java. Explain Multi level inheritance with example.
(OR)
(b) Write in detail on Constructors in Java. Give examples.
17. (a) Highlight the factors to handle Exceptions in Java. Give examples.
(OR)
(b) How to apply Access Protection on Packages? Give example.
18. (a) Write in detail about Interthread Communication with example.
(OR)
(b) Analyze the collection classes in Java framework.
19. (a) Write a java swing program to find the factorial of the given number.
(OR)
(b) Distinguish between Input stream class and output stream class.
20. (a) Write a Java program to delete data from the database using JDBC.
(OR)
(b) Explain different types of Drivers in JDBC.

Z-Z-Z END