

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(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. A default constructor has _____.
(i) no arguments (ii) no return type
(iii) has one argument (iv) has two arguments
2. Which will contain the body of the thread?
(i) run() (ii) start() (iii) stop() (iv) main()
3. Out of these methods of the String class, which one can be used for testing the strings for equality?
(i) isequals() (ii) isequal() (iii) equals() (iv) equal()
4. What is the name of the Swing class that is used for frames?
(i) Window (ii) Frame (iii) JFrame (iv) JFrame
5. Which class is used to establish a database connection in JDBC?
(i) java.sql.Connection (ii) java.sql.DriverManager
(iii) java.sql.Statement (iv) java.sql.ResultSet

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

6. (a) Give the importance of THIS keyword.
(OR)
(b) How to use super keyword in Inheritance?
7. (a) Write a Java program to find the area and perimeter of square and circle using interface.
(OR)
(b) Develop a Java Program to implement user defined packages. Explain it with example.
8. (a) Explain the methods of Thread Class with example.
(OR)
(b) Construct a Java program to create two threads. One thread will display the numbers from 1 to 50 (ascending order) and other thread will display numbers from 50 to 1 (descending order)
9. (a) Compare AWT with Swing.
(OR)
(b) Write any three methods from Byte Stream classes.
10. (a) Comment on Date Time API with example.
(OR)
(b) Justify the need of JDBC.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

11. (a) Elaborate on the concept of Constructor in Java with example.
(OR)
(b) Construct a Java program to show final keyword to prevent Overriding.
12. (a) Comment on the steps to create user-defined exception. Give an example.
(OR)
(b) Explain the process of handling exception in JAVA with the help of an example using try-catch-finally block.
13. (a) Comment on Thread in Java. Explain about creation of a thread with example.
(OR)
(b) Compute Multithreading in Java. In how many ways java implements multithreading? Explain at least one of these ways with appropriate example.
14. (a) Write a program to count number of words from a text file using stream classes.
(OR)
(b) Elaborate with an example the concept of Inserting and Deleting values in Swing List.
15. (a) Analyze different types of Drivers in JDBC.
(OR)
(b) Write a program to insert data in to the database using JDBC.

Z-Z-Z

END