PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(Third Semester)

Branch – **INFORMATION TECHNOLOGY**

CORE JAVA PROGRAMMING

Time: Three Hours   Maximum: 50 Marks

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

1   Identify the highest precedence of the Java operators.
   (i) &&   (ii) ==
   (iii) *   (iv) [ ]

2   Mention the method that resumes execution of a thread waiting on the invoking object.
   (i)   Object clone( )   (ii) void notify( )
   (iii) void finalize( )   (iv) Class getClass( )

3   Indicate the method which attempts to create an object of an abstract class or interface?
   (i)   InstantiationException   (ii) InterruptedException
   (iii) SecurityException   (iv) ClassCastException

4   Which is the component that appears as a group of folders in a file cabinet?
   (i)   Text Field   (ii) Combo Boxe
   (iii) Tabbed Pane   (iv) Table

5   Which of the following is advantage of using PreparedStatement in Java?
   (i)   Slow performance   (ii) Encourages SQL injection
   (iii) Prevents SQL injection (iv) More memory usage

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

6   a   Explain about Variable along with its Scope and Lifetime.
              OR
   b   Summarize on any three Character Extractions.

7   a   How to use final with Inheritance? Explain.
              OR
   b   How to import a Package? Explain.

8   a   Describe about use of 'Throws' statement with an example.
              OR
   b   Sketch about Nested try Statements with an example.

9   a   How to use the Delegation Event Model? Explain.
              OR
   b   Write about Text Fields in Swing.

10 a   Bring out the reason for using JDBC Package.
              OR
   b   Develop a note on usages of Java Soft Framework.

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

11 a   Discuss about 'While' statement with an example.
OR
   b   Trace about String Comparison used in Java.

12 a   Demonstrate through a program about using Super to call Superclass Constructors.
OR
   b   Elaborate on Implementing and Applying Interface in Java.

13 a   Summarize about Synchronization process in Java.
OR
   b   Point out your view on Suspending, Resuming, and Stopping Threads.

14 a   Analyze about:
   i)   The ActionListener Interface
   ii) The FocusListener Interface
   iii) The MouseListener Interface
OR
   b   Highlight the importance of Tabbed Panes and Tables in Swing.

15 a   Survey on types of JDBC Drivers available in Java.
OR
   b   Outline about using Prepares Statement Object.

Z-Z-Z   END