PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2025
(Third Semester)
Branch – INFORMATION TECHNOLOGY
CORE JAVA PROGRAMMING

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)
Answer ALL questions
ALL questions carry EQUAL marks
(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which of the following is NOT a Java feature? a) Platform Independent b) Dynamic and Secure c) Pointer-based Programming d) Object-Oriented	K1	CO1
	2	What is the default value of a String variable in Java? a) "" (Empty String) b) null c) "null" d) Undefined	K2	CO1
2	3	What is inheritance in Java? a) A process of defining a new class based on an existing class b) A way to achieve multiple method calls c) A method to convert objects to primitive types d) None of the above	K1	CO2
	4	If no package is specified in a Java class, which package is used by default? a) java.lang b) java.io c) java.util d) No package is used	K2	CO2
3	5	What is the purpose of the finally block in exception handling? a) To execute important code, regardless of exception occurrence b) To catch all exceptions c) To declare an exception d) To terminate the program	K1	CO3
	6	What is multithreading in Java? a) Executing multiple processes simultaneously b) Executing multiple threads simultaneously c) Running multiple Java programs d) None of the above	K2	CO3
4	7	Which interface is used to handle mouse events in Java? a) MouseListener b) KeyListener c) MouseEvent d) WindowListener	K2	CO4
	8	Which class must a Java applet extend? a) Frame b) Object c) Panel d) Applet	K1	CO4
5	9	What is JDBC in Java? a) Java Database Control b) Java Data Communication c) Java Database Connectivity d) Java Data Collection	K1	CO5
	10	Which of the following is advantage of using JDBC connection pool? a) Slow performance b) Using more memory c) Using less memory d) Better performance	K2	CO5

SECTION - B (35 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks   (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Explain the different types of control statements in Java with examples.	K2	CO1
		(OR)		
	11.b.	Write a Java program to check if a given string is a palindrome.		
2	12.a.	Write about creating a multilevel hierarchy in Java?	K3	CO2
		(OR)		
	12.b.	What is method overriding in Java? Discuss its key purposes.		
3	13.a.	Demonstrate a java program handling the exception using try-catch block.	K4	CO3
		(OR)		
	13.b.	What does Java multithreading mean? Describe its benefits.		
4	14.a.	Give the importance of Japplet.	K3	CO4
		(OR)		
	14.b.	Explain about the delegation event model in Java?		
5	15.a.	Narrate on Javasoft framework.	K4	CO5
		(OR)		
	15.b.	How to Use Prepared Statement in Java? Explain.		

SECTION -C (30 Marks)
Answer **ANY THREE** questions
ALL questions carry **EQUAL** Marks   (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Analyse the string operations in Java. Illustrate the ways of Creating a Java String.	K4	CO1
2	17	Explain Java packages, their types, and how they are created in Java. Provide an example	K4	CO2
3	18	Elucidate on thread methods in Java with example.	K4	CO3
4	19	Discuss on i)Text Field ii) Buttons iii) and Combo boxes in Swing	K4	CO4
5	20	Enumerate on Driver Interface and Driver manager in Java.	K4	CO5

Z-Z-Z   END