

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BCom DEGREE EXAMINATION MAY 2025
(Fourth Semester)

Branch – e-COMMERCE

FUNDAMENTALS OF 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	What is Java bytecode? A. Platform-specific machine code B. Platform-independent intermediate code C. Java source code D. CPU-executable binary	K1	CO3
	2	Relate the main role of the Java Virtual Machine? A. Interpret and execute bytecode B. Compile Java source code C. Convert bytecode to source code D. Execute platform-specific machine code	K2	CO3
2	3	What does String[] args represent in Java? A. Return value of main() B. Command-line arguments C. Default method arguments D. A static variable	K1	CO3
	4	Extend the correct syntax for declaring an array in Java? A. int[] arr = new int[5]; B. int arr[] = new int(5); C. int arr[] = int[5]; D. array int[5] arr;	K2	CO3
3	5	Which statement about Java interfaces is true? A. Interfaces can contain concrete methods B. A class can implement multiple interfaces C. Interfaces can be instantiated D. Interfaces cannot extend other interfaces	K1	CO3
	6	Relate which of the following is a core Java system package? A. java.util B. java.main C. java.program D. java.database	K2	CO3
4	7	Which of the following is used to create a thread in Java? A. Extending the Thread class B. Implementing the Runnable interface C. Both A and B D. Using the Thread.start() method	K1	CO3
	8	Interpret the following term used for exception handling in Java? A. try-catch B. throw-throws C. finally D. All of the above	K2	CO3
5	9	Which method is called when a Java applet is initialized? A. start() B. init() C. destroy() D. paint()	K1	CO3

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5	10	Extend the method is used to draw a line using the Java Graphics class? A. drawLine() B. line() C. paintLine() D. drawShape()	K2	CO3
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SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

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Module No.	Question No.	Question	K Level	CO
1	11.a.	Construct a note on Java Program Structure.	K3	CO3
	(OR)			
	11.b.	Develop a Java Program using else-if statement.		
2	12.a.	Construct a note on Java Constructors. Provide necessary example.	K3	CO3
	(OR)			
	12.b.	Identify Static members in a Java Program with example.		
3	13.a.	Examine Java Interfaces. Provide detailed example.	K4	CO3
	(OR)			
	13.b.	Analyze Java Packages. Provide example.		
4	14.a.	Examine the way of creating thread class in Java. Provide detailed example.	K4	CO3
	(OR)			
	14.b.	Dissect Multithreading in Java. How to block and stop a thread. Provide example.		
5	15.a.	Summarize building Applet code in java.	K2	CO3
	(OR)			
	15.b.	Outline Lines and Rectangles in Graphics Class.		

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	Analyze Java Virtual Machine.	K4	CO3
2	17	Examine Java String Methods. Provide necessary example.	K4	CO3
3	18	Inspect Java API Packages.	K4	CO3
4	19	Examine life cycle of a thread in java.	K4	CO3
5	20	Examine the way of designing a Web Page using Java Applet.	K4	CO3