PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCA DEGREE EXAMINATION DECEMBER 2025
(Second Semester)

Branch – COMPUTER APPLICATIONS

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	Type conversion in Java is also called_____ a) Casting b) Wrapping c) Boxing d) Promotion	K1	CO1
	2	Which type of method has the same name as the class and no return type? a) Normal method b) Constructor c) Abstract method d) Final method	K2	CO1
2	3	Which method is used for runtime polymorphism in Java? a) Method Overloading b) Method Overriding c) Constructor Overloading d) None	K1	CO2
	4	Which of the following is the parent class of all classes in Java? a) Root b) Class c) Object d) Super	K2	CO2
3	5	Which of these keywords is used to handle exceptions in Java? a) try b) catch c) throw d) All of these	K1	CO3
	6	Which of the following is used to prevent two threads from accessing the same resource at the same time? a) Priorities b) Synchronization c) Exception Handling d) Deadlock	K2	CO3
4	7	The HTML <APPLET> tag is used for: a) Defining methods in applet b) Embedding applets in a web page c) Defining repaint logic d) Importing Java libraries	K1	CO4
	8	Which package contains JDBC classes? a) java.sql b) java.jdbc c) java.db d) javax.sql only	K2	CO4
5	9	In the delegation event model, the object that generates an event is called: a) Listener b) Source c) Adapter d) Handler	K1	CO5
	10	Which Swing component is used for a single line text input? a) JTextArea b) JTextField c) JLabel d) JList	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 Java Class Libraries with examples.	K3	CO1
		(OR)		
	11.b.	Write a short note on methods in Java. Show an example of defining and calling a method.		
2	12.a.	Explain method overloading with an example.	K3	CO2
		(OR)		
	12.b.	What is a package in Java? Explain the steps to create and use a package.		
3	13.a.	Explain the fundamentals of exception handling in Java.	K3	CO3
		(OR)		
	13.b.	Explain the life cycle of a thread in Java.		
4	14.a.	Explain the use of repaint() and showStatus() methods with examples.	K4	CO4
		(OR)		
	14.b.	Explain the steps involved in establishing a database connection in JDBC.		
5	15.a.	Explain the Delegation Event Model with a diagram.	K4	CO5
		(OR)		
	15.b.	Write short notes on Swing packages.		

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	Describe constructors in Java. Explain types of constructors with examples.	K5	CO1
2	17	Discuss in detail about method overriding and dynamic method dispatch with example.	K5	CO2
3	18	Describe the methods for suspending, resuming, and stopping threads.	K5	CO3
4	19	Explain the architecture of an applet with a neat diagram.	K6	CO4
5	20	Explain the usage of JTextField, JButton, and JLabel with an example program.	K6	CO5

Z-Z-Z END