

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**MCom(CA) DEGREE EXAMINATION MAY 2025
(Fourth Semester)**

Branch – COMMERCE WITH COMPUTER APPLICATION

PROGRAMMING IN ADVANCED JAVA

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	How do you create an instance (object) of a class named 'Car' in Java? a) Car myCar = new Car(); b) Car myCar; c) new Car myCar; d) create Car myCar;	K1	CO1
	2	Show in which keyword is used to inherit a class? a) super b) this c) extent d) extends	K2	CO1
2	3	Which keyword is used to import classes from other packages into your current class? a) class b) interface c) package d) import	K1	CO2
	4	Outline in Which method is used to resume a suspended thread in Java? a) resume() b) notify() c) interrupt() d) start()	K2	CO2
3	5	What is the purpose of the repaint() method in an Applet? a) To start the Applet b) To stop the Applet c) To redraw the Applet d) To handle user input	K1	CO3
	6	Show in which component allows the user to enter multiple lines of text? a) TextField b) TextArea c) Label d) Button	K2	CO3
4	7	What is a Servlet? a) A Java program that runs on a web server. b) A small Java program that runs within a web browser. c) A Java program used for database interaction. d) A Java program for creating standalone applications.	K1	CO4
	8	What is the purpose of the HttpServletResponse object in a Servlet? a) To encapsulate the client's request information. b) To encapsulate the response that the Servlet sends back to the client. c) To manage session data. d) To access the ServletConfig object	K2	CO4
5	9	Which JDBC interface represents a session with a specific database? a) DriverManager b) Statement c) Connection d) ResultSet	K1	CO5
	10	Show in which class represents the result set of a query in JDBC? a) Statement b) PreparedStatement c) ResultSet d) Connection	K2	CO5

Cont...

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 process of declaring a class in Java, including its syntax and key components.	K2	CO1
	(OR)			
	11.b.	Develop a Java class named "Car" with attributes like "model," "color," and "speed." Include methods to start, stop, and accelerate the car.		
2	12.a.	Identify the benefits of using packages in Java?	K3	CO2
	(OR)			
	12.b.	Create a Java program that demonstrates exception handling for potential arithmetic errors.		
3	13.a.	Explain the role of the stop(), and destroy() methods in the applet lifecycle.	K3	CO3
	(OR)			
	13.b.	Develop an applet that uses a text field to allow the user to enter input, and then displays the entered text in a text area.		
4	14.a.	Classify a servlet in Java, and how does it differ from a traditional web page?	K4	CO4
	(OR)			
	14.b.	List out a session tracking in web applications.		
5	15.a.	Evaluate the key benefits of using JDBC for database access.	K4	CO5
	(OR)			
	15.b.	Create a JDBC program that inserts a new record into a database table.		

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	Explain the role of the main() method in a Java class.	K4	CO1
2	17	Evaluate the difference between importing a single class versus importing all classes from a package.	K4	CO2
3	18	Create a simple menu bar in a Java application using AWT.	K4	CO3
4	19	Explain the advantages of using sessions over cookies for session management in a web application.	K4	CO4
5	20	Distinguish the four types of JDBC drivers, and explain their differences.	K4	CO5