

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch – COMPUTER SCIENCE

ADVANCED JAVA PROGRAMMING

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks

$$(10 \times 1 = 10)$$

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.	Write note on the concept of Java EE and its evolution. (OR)	K2	CO1
	11.b.	What is a Servlet? Explain its basic life cycle.	K2	CO1
2	12.a.	Examine the kinds of cookies and how cookies are created using servlets? (OR)	K3	CO2
	12.b.	Explain the lifecycle of an HTTP session.	K3	CO2
3	13.a.	Explain how a Non-Blocking Read Application works in Java? (OR)	K4	CO3
	13.b.	Describe different types of comments and elements used in JSP.	K4	CO3
4	14.a.	Summarize implicit objects in JSP with examples. (OR)	K3	CO4
	14.b.	Explain the JSTL core tags with suitable examples.	K3	CO4
5	15.a.	Discuss the current persistence standards in Java with examples. (OR)	K4	CO5
	15.b.	Expound on the JPA architecture.	K4	CO5

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	Discuss in detail the Java EE architecture and its components with a suitable diagram.	K4	CO1
2	17	Illustrate how file uploading is done using Servlets? with an example.	K4	CO2
3	18	Examine the steps to create a basic Java web application using servlets and JSP.	K4	CO3
4	19	Analyze the spring architecture in detail with a neat diagram.	K4	CO4
5	20	Illustrate JPA entities and relationships with examples.	K4	CO5