22CAP209

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MCA DEGREE EXAMINATION MAY 2023

(Second Semester)

Branch - COMPUTER APPLICATIONS

ADVANCED JAVA PROGRAMMING

	Time: Three Hours Maximum: 50 Mark
	SECTION-A (5 Marks)
	Answer ALL questions
	ALL questions carry EQUAL marks $(5 \times 1 = 5)$
1	Which component is used to compile, debug and execute the Java programs
	(i) JRE (ii) JIT
	(iii) JDK (iv) JVM
2	How is the dynamic interception of request and responses to transform the
	information is done?
	(i) servlet container (ii) servlet config
	(iii) servlet context (iv) servlet filter
3	Which page directive should be used in JSP to generate a PDF page?
	(i) content type (ii) generatePdf
	(iii) typePDF (iv) contentPDF
4	Which of the following is not an Enterprise Beans type?
	(i) Doubleton (ii) Singleton
	(iii) Stateful (iv) Stateless
5	To address different JMS APIs, Spring provides?
3	
	(iii) both options a and b (iv) JmsTemplate103
	SECTION - B (15 Marks)
	Answer ALL Questions
	ALL Questions Carry EQUAL Marks $(5 \times 3 = 15)$
6	a. Draw the timeline for the history of J2EE. OR
	b. Write a note on connection interfaces in J2EE.
	b. Write a note on connection interfaces in \$200.
7	a. Explain the various stages of servlets life cycle in java OR
	b. Narrate the necessity for using "tracking session" in Java.
8	a . Write your own program to demonstrate the usage of JSP tags. OR
	b. Indicate the elements used in JSP with example program.

a. Summarize the interfaces used in EJB.

- b. Illustrate the working procedure of JAR files of Java beans.
- 10 a. List out the Java Mail API classes.

b. Bring out the basic features JMS API.

SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a. Explain the architecture of J2EE with example.

- b. Paraphrase a clear note on the JDBC drivers.
- 12 a. Explain the strong assessment on the usage of Java servlets.

- b. Collect the techniques used for session tracking in java.
- 13 a. Demonstrate the various control statements available in JSP.

- b. Explain the procedure of handling of cookies in JSP.
- 14 a. List and explain the JavaMail API protocols.

- b. Prepare a note on the building blocks of JMS applications.
- 15 a. Capture the features of Entity beans in EJB.

b. State the concepts related to web application security in EJB.

7-Z-Z

END