## KADI SARVA VISHWAVIDYALAYA

BE SEMESTER-VI (Computer Engineering/Information Technology/ Computer Science and Engineering) Examination April/May - 2025

Subject Name: Advance Java Programming

Subject Code: CT506A-N

Date: 21/04/2025

Time: 10:30am to 01:30pm

Total Marks: 70

## Instructions:

- 1. Answer each section in separate answer sheet.
- 2. Use of scientific calculator is permitted.
- 3. All questions are Compulsory.
  - 4. Indicate clearly, the option you attempt along with its respective question number.
  - 5. Use the last page of main supplementary of rough work.

## Section-I

Q-1 (A)	What is the function of a Session Factory object? How will you obtain Such an [5]
(B) (C)	object? Discuss in brief types of JDBC Drivers with proper diagrams.  What do you mean by session tracking? What are the session tracking Techniques?  [5] Demonstrate any 1 of them.
	$\mathbf{OR}$
(C)	What is connection URL? How do you make a database connection? Explain various ways to make the database connection using JDBC code snippets. [5]
Q-2 (A)	What are the implicit objects of JSP? Write a JSP script to demonstrate the use of them. [5]
(B)	Explain JSP Life Cycle in detail. [5]
	OR
Q-2 (A) (B)	[5]
Q-3 (A)	What are the different Hibernate interfaces? Explain their role in brief. [5]
(B)	Explain JSP basic tags with proper codes. [5]
O-3 (A)	OR What are the advantages of Spring MVC? Explain the flow of Spring Web MVC. [5]
(B)	Differentiate between Servlet Config and Servlet Context. [5]

## Section-II

	Q-4	(A)	Explain the use of Prepared Statement with appropriate example.	[5]
	, , , . ·	(B)	Explain the purpose of Request Dispatcher using the methods forward () and	[5]
			Include O.	L <sup>o</sup> .
		<b>(C)</b>	What is JSTL? Explain the core tags of the SQL tag library.	Γ5
			OR	[5]
		(C)	Discuss JSF life cycle phases.	[5]
	Q-5	(A)	What is Spring Bean? How can you create bean in Spring boot?	[5]
		<b>(B)</b>	Explain Hibernate Manning File and configuration C1	[5]
2 3. v	O-5	(A)	OR Explain in detail What is OR mapping?	
		(B)		[5]
		(D)	Explain Spring Framework Architecture with a diagram.	[5]
	Q-6	(A)	What is HQL? Differentiate between HQL and SQL.	<b>[</b> 5]
1.50 or <u>10.</u> 50		<b>(B)</b>		[5]
	Q-6		Write a java program where client sends a string as a message and sever counts the characters in the received message from client. Server sends this value back to the client. Server should be able to serve multiple clients simultaneously.	[5]
		<b>(B)</b>	What is Expression Language EL in ISB overlain and Language EL	[5]