Reg.No | | | | | | | |

SNS COLLEGE OF TECHNOLOGY

(Autonomous)

B

MCA- Internal Assessment –II (May2024)

Academic Year 2023-2024(Even) / Second Semester

23CAT606 – Java Programming

Time: $1^{1/2}$ Hours **Maximum Marks: 50**

Answer All Questions

PART - A (5 x 2 = 10 Marks)

		CO	BL
1	‘‘Import statement is not essential in java.’’ True/False. Justify	CO2	Eva
2	How does the garbage collector in Java determine that an object is no longer reachable and eligible for garbage collection?	CO2	Ana
3	Why synchronization is required in thread?	CO3	Eva
4	Differentiate TCP with UDP.	CO3	Ana
5	Examine two main methods of Servlet.	CO3	Ana

PART - B (2 x 13 = 26, 1x 14=14Marks)

6	(a)	Identify potential memory leaks or inefficient memory usage patterns that contribute to excessive garbage collection activity.	CO2	Und
	(b)	Categorize the I/O packages and its use case.	CO3	Und
7	(a)	Construct four JDBC drivers according to their distinct characteristics with neat diagram	CO3	Ana
		(Or)		
	(b)	Experiment how session data is managed in the web application using HttpSession objects.	CO3	Ana
8	(a)	Design user login window with event handling using ActionListener interface	CO2	App
		(Or)		
	(b)	Develop a simple chat application using Java sockets. The application should support multiple clients communicating with a server. The server will broadcast messages from one client to all other connected clients	CO3	App

Reg.No | | | | | | | |

SNS COLLEGE OF TECHNOLOGY

(Autonomous)

B

MCA- Internal Assessment –II (May2024)

Academic Year 2023-2024(Even) / Second Semester

23CAT606 – Java Programming

Time: $1^{1/2}$ Hours Maximum Marks: 50

Answer All Questions

PART - A (5 x 2 = 10 Marks)

		CO	BL
1	‘‘Import statement is not essential in java.’’ True/False. Justify	CO2	Eva
2	How does the garbage collector in Java determine that an object is no longer reachable and eligible for garbage collection?	CO2	Ana
3	Why synchronization is required in thread?	CO3	Eva
4	Differentiate TCP with UDP.	CO3	Ana
5	Examine two main methods of Servlet.	CO3	Ana

PART - B (2 x 13 = 26, 1x 14=14 Marks)

6	(a)	Identify potential memory leaks or inefficient memory usage patterns that contribute to excessive garbage collection activity.	CO2	Und
	(b)	Categorize the I/O packages and its use case.	CO3	Und
7	(a)	Construct four JDBC drivers according to their distinct characteristics with neat diagram	CO3	Ana
		(Or)		
	(b)	Experiment how session data is managed in the web application using HttpSession objects.	CO3	Ana
8	(a)	Design user login window with event handling using ActionListener interface	CO2	App
		(Or)		
	(b)	Develop a simple chat application using Java sockets. The application should support multiple clients communicating with a server. The server will broadcast messages from one client to all other connected clients	CO3	App