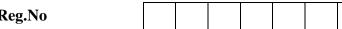
		Reg.No						Reg.No			
		SNS COLLEGE OF TECHNOLOGY  (Autonomous)  MCA- Internal Assessment –II (May2024)  Academic Year 2023-2024(Even) / Second Semester				SNS COLLEGE OF TECHNOLO (Autonomous) MCA- Internal Assessment –II (May2024) Academic Year 2023-2024(Even) / Second Semonth (Second Semonth)					
T;	mo· 1	23CA 1 000 — 1 1 <sup>1/2</sup> Hours	Java Programming Maximum M	orke 4	50	т	'imo:	23CAT606 – Jav 1 <sup>1/2</sup> Hours	a Progra		_
Answer All Questions				1a1 K5. 50		Time: 1 <sup>1/2</sup> Hours Maximum Answer All Questions					
			$5 \times 2 = 10 \text{ Marks})$					PART - A (5 x	•		
				CO	BL						
1	''Im Justi	nport statement is not essentify	tial in java.'' True/False.	CO2	Eva	1	"Im Just	port statement is not essential i	n java.''	Γrue/F	alse.
2	How does the garbage collector in Java determine that an object is no longer reachable and eligible for garbage collection?			CO2	Ana	2	an c	Iow does the garbage collector in Java determine to n object is no longer reachable and eligible for garallection?			
3	Why synchronization is required in thread?			CO3	Eva	3	Why	Thy synchronization is required in thread?			
4	Diff	Ferentiate TCP with UDP.		CO3	Ana	4	Diff	erentiate TCP with UDP.			
5	Exa			Ana	5	Exa	xamine two main methods of Servlet.				
6	(a)	PART - B (2 x 13	= 26, 1x 14=14Marks) mory leaks or inefficient erns that contribute to	CO2	Und	6	(a)	PART - B (2 x 13 = 26 Identify potential memor memory usage patterns excessive garbage collection	<b>, 1x 14=1</b> y leaks that	or ir contri	neffici
	(b)	Categorize the I/O packag	es and its use case.	CO3	Und		(b)	Categorize the I/O packages a	and its use	case.	
7	(a)	characteristics with neat d	ers according to their distinct iagram (Or)	CO3	Ana	7	(a)	Construct four JDBC drive distinct characteristics with no (Or)	eat diagra	ording m	to t
8	(b) (a)	web application using H Design user login windo ActionListener interface	on data is managed in the IttpSession objects. w with event handling using (Or)		Ana App	8	(b) (a)	Experiment how session of web application using Http Design user login window was ActionListener interface  (Or)	Session of with event	bjects	s.
		'	(01)					(01)			

App

(b) Develop a simple chat application using Java sockets. CO3

The application should support multiple clients communicating with a server. The server will broadcast

messages from one client to all other connected clients



## OGY

ester

m Marks: 50

		$PART - A (5 \times 2 = 10 \text{ Marks})$			
		<b>(</b>	CO	BL	
1	"Im Justi	CO2	Eva		
2	•				
3	Why	CO3	Eva		
4	Diff	CO3	Ana		
5	Exa	CO3	Ana		
5	(a)	PART - B (2 x 13 = 26, 1x 14=14 Marks)  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 (Or)	CO3	Ana	
	(b)	Experiment how session data is managed in the web application using HttpSession objects.	CO3	Ana	
3	(a)	Design user login window with event handling using ActionListener interface (Or)	CO2	App	
	(b)	Develop a simple chat application using Java sockets. The application should support multiple clients	CO3	App	

communicating with a server. The server will

broadcast messages from one client to all other

connected clients