B.Tech - Odd Sem : Semester in Exam-I Academic Year:2023-2024

22CS2104R - OPERATING SYSTEMS

Set No: 1

Max.M	arks: 50			
Choice	Options Marks	('()		COI BTL
	12Marks	CO1	3	2
	2Marks	CO1	3	2
	2Marks	CO1	3	2
	2Marks	CO1	3	2
	2Marks	CO2	3	2
	2Marks	CO2	3	2
	2Marks	CO2	3	2
	16Marks	CO2	3	2
	4Marks	CO1	3	2
	4Marks	CO1	3	2
	4Marks	CO2	3	2
	4Marks	CO2	3	2
choice Q-4	11Marks	CO1	3	2
	5Marks	CO1	3	2
i	6Marks	CO1	3	3
	11Marks	CO1	3	2
	5Marks	CO1	3	2
	6Marks	CO1	3	3
choice Q-6	11Marks	CO2	3	3
	5Marks	CO2	3	3
	choice Q-4	12Marks 2Marks 2Marks 2Marks 2Marks 2Marks 2Marks 2Marks 16Marks 4Marks 4Marks 4Marks 4Marks 4Marks 4Marks 4Marks 4Marks 6Marks 5Marks 5Marks 6Marks 6Marks 611Marks 511Marks 611Marks	Choice Options Marks CO1 12Marks CO1 2Marks CO1 2Marks CO1 2Marks CO2 2Marks CO2 2Marks CO2 2Marks CO2 2Marks CO2 2Marks CO2 4Marks CO1 4Marks CO1 4Marks CO1 4Marks CO2 4Marks CO2 4Marks CO1 4Marks CO1 4Marks CO1 4Marks CO1 5Marks CO1 5Marks CO1 6Marks CO1 5Marks CO1	Choice Options Marks CO BTL 12Marks CO1 3 2Marks CO1 3 2Marks CO1 3 2Marks CO2 3 4Marks CO1 3 4Marks CO1 3 4Marks CO2 3 4Marks CO2 3 5Marks CO1 3 5Marks CO1 3 5Marks CO1 3 6Marks CO1 3 6Marks CO1 3

5.B.	Consider a reference string 5 6 7 8 5 6 7 8 5 6 7 8 9 0 4 3 for the memory with 4 frames and with 3 frames. find the page faults with FIFO algorithm.	6Marks	CO2 3	3
6.	Answer the Questions 6A and 6B	11Marks	CO2 3	3
6.A.	Calculate the Page fault with the Optimal Page replacement algorithm and FIFO Page Replacement Algorithm with reference string 1 2 3 2 5 6 3 4 6 3 4 6 3 7 3 1 5 3 6 3 4 2 4 3 4 5 1 Assume that the memory size is four frames.	5Marks	CO2 3	3
6.B.	Identify the roles of Virtual Memory, Swapping, paging and Demand Paging in operating system.	6Marks	CO2 3	3