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Class:21CS4A&B, 21IT4A&B				Date: 15.03.2023					T	Time: 10.30 am – 12.30 pm									
K	Knowledge K1				- Remembering				K3 -	750					K5 – Evaluating				
Levels (KL) K2				- Understanding				Day 10		4 – Analysing				K6 – Creating					
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	Nan Spec Outl List State Diff Give How Defi Com	ine an cify the cify the cify the cify the cify dead ne ra	he signi vorking he bene four ess iate turn requirent dlock ca ce cond	five ficat prin fits of senti- naron ment an be lition addi	diffe nce of nciple of mu ial sec und ti ts to se avoin.	of du e of sultice ction ime solve ided	proof and and e the	cess state ode oper boot. orograms process waiting a critical state of the critical stat	es. ration. ning. synchr time. section	onizat probl	ion.					CO CO CO CO CO2 CO2 CO2 CO2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	K1 K2 K2 K2 K2 K2 K3 K2 K2 K2 K2	
No.	(-)	<i>(</i> *)	711	Question						M	arks	СО	K	IL					
13.	(a)	(i)	opera	llustrate objectives of operating system and functions of perating system with an example.  ist and explain any four system calls in operating system.  OR						f	8	COI	K	2					
		(ii)	List a								4	COI	K	12					
	(b)	(i)	State	an			orate		nodels	of	inter	pr	ocess	5	8	COI	K	2	
		(ii)	communication with its strengths and weakness.  Annotate Multithreading models with neat diagram.									4	COI	K					
																COI	-	-	
14.	(a)		Proces P0 P1 P2 Draw proces FCFS, Comp	Gan Sses SJF letio at is	Arriva  O  I  2  att chausing  F, SR  on time  the a	arts to the TS Value for average	that that what or the	set of pr milliseco Burst Ti 9 4 9 illustrate owing set t is the average three pr turnarous hods?	the excheduli	ecutio ng alg waitir s?	n of th orithm	nese ns: e and	d		12	CO2	K	3	

OR

	(b)	Consider the following snapshot of a system:  Allocation Max Available  ABCD ABCD ABCD  P0 0012 0012 1520  P1 1000 1750  P2 1354 2356  P3 0632 0652  P4 0014 0656	12	CO2	К3
		Answer the following questions using the banker's algorithm:  a. What is the content of the matrix Need?  b. Is the system in a safe state?  c. If a request from process P1 arrives for (0,4,2,0) can the request be granted immediately?			
15.	(a)	Interpret memory protection and memory allocation strategies in contiguous memory allocation.  OR	12	CO3	K2
	(b)	Describe different types of page tables and its work flow with a neat sketch.	12	CO3	K2

Esculto in charge

Approved

HOD/CSE 8/3/23

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