Reg. No.:	(Pages : 2)	7752
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	B.Tech. Degree Examination (2008 Scheme) : MODERN OPERATING SY	ed eHQF orthograms for
Time: 3 Hours		Max. Marks: 100
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	PART - ALEMORIAL CSI I	NSTITUTE OF TE
Answer all questions:	TRIVANI	DRUM-11 0×4=40 Marks)
1. Explain about the layer	Mr.	MMOOLA * 190
2. What is spin lock? How	w can it be avoided?	ingle National State of the Sta
3. Explain the feature of t	ree structured directory.	AC.
4. When is a system said	to be in a safe state ? Explain w	ith example.
5. What is the purpose of	paging the page table?	
6. What is the difference to	petween global and local page re	placement strategies.
7. Discuss any two page	replacement algorithms.	
8. What is the function of	a device controller?	
9. Discuss about various	RAID levels.	ing en anger of the second
10. Explain FAT.		
	PART-B	
Answer any one question f	from Each Module : Module – I	(3×20=60 Marks)
11. a) Discuss about the o	different OS structure.	10

b) What is a system call? Explain the different categories into which they can

12. a) Provide two examples in which multi threading is not better than a single

b) Explain the Banker's algorithm for deadlock avoidance.

be grouped.

threaded solution.

10

10

10



Module - II

13.	a)	Explain the concept of virtual memory. How is the page fault servicing done?	10
	b)	Discuss the FCFs page replacement algorithm. Illustrate an occurrence of Belady's anomaly.	10
		SASM XSM OR	
14.	a)	How is the free space management done in memory.	10
	b)	With neat diagram, explain demand paged memory allocation scheme.	10
		Module – III	
15. a)		Discuss the disk scheduling algorithms with example.	10
	b)	Write notes on indexed file allocation method and linked allocation method.	10
		OR AND SOME DESIGNATION OF THE PROPERTY OF THE	
16.	a)	Suppose a disk has 200 cylinders numbered 0 to 199 starting from the outermost cylinder. The disk has just serviced I/O request from cylinder 1 and from 30. Next I/O request arrive at roughly the same time in the following sequence – 10, 125, 75, 190, 105, 50, 145. Calculate the total distance in cylinder moved by disk arm from current position if the disk scheduling algorithm is	
		(i) FCFs (ii) SSTF (iii) SCAN (iv) C-SCAN (v) Elevator.	12
	b)	Explain about file sharing and file protection.	8