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			O D 0.1. 20417	
			Question Paper Code: 20417	
		B.1	E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2022.	
			Fourth/Fifth Semester	
			Computer Science and Engineering	
			CS 8493 – OPERATING SYSTEMS	
(0	commo	on to :	Electronics and Communication Engineering/Computer Science Business Systems/Information Technology)	and
			(Regulations 2017)	
Tin	ne: Th	ree h	ours Maximum: 100 m	arks
			Answer ALL questions.	
			PART A — $(10 \times 2 = 20 \text{ marks})$	
1.	Wha	at are	the steps in Instruction Execution?	
2.			rstem Boot.	
3.	Wha	at are	Kernel Threads?	
4.	Des	cribe	Context Switch.	
5.	Wha	at is E	External Fragmentation?	
6.	Des	cribe :	Demand Paging System.	
7.	List	t out n	najor attributes of a file.	
8.	Wha	at is N	Mount point'?	
9.	Defi	ine Ke	ernel in Linux Operating System.	
10.	Wha	at is t	he purpose of fork() and exec() system calls?	
			PART B — $(5 \times 13 = 65 \text{ marks})$	
11.	(a)	(i)	Illustrate the flow of control with and without Interrupts.	(7)
		(ii)	List and explain five types of System Calls.	(6)
			Or	
	(b)	(i)	Explain the basic structure and operations of operating system.	(7)
		(ii)	Brief about the various types of memories in memory hierarchy	(6)

Question Paper Sponsored by M.E.T. Engineering College, Chenbagaramanputhoor, Kanyakumari Dist.

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(b) It is sometimes said that tape is a sequential-access medium, whereas a magnetic disk is a random-access medium. In fact, the suitability of a storage device for random access depends on the transfer size. The term streaming transfer rate denotes the rate for a data transfer that is underway, excluding the effect of access latency. By contrast, the effective transfer rate is the ratio of total bytes per total seconds, including overhead time such as access latency.

Suppose that, in a computer, the level-2 cache has an access latency of 8 nanoseconds and a streaming transfer rate of 800 megabytes per second, the main memory has an access latency of 60 nanoseconds and a streaming transfer rate of 80 megabytes per second, the magnetic disk has an access latency of 15 milliseconds and a streaming transfer rate of 5 megabytes per second, and a tape drive has an access latency of 60 seconds and a streaming transfer rate of 2 megabytes per seconds.

- (i) Random access causes the effective transfer rate of a device to decrease, because no data are transferred during the access time. For the disk described, what is the effective transfer rate if an average access is followed by a streaming transfer of (1) 512 bytes, (2) 8 kilobytes, (3) 1 megabyte, and (4) 16 megabytes?
- (ii) The utilization of a device is the ratio of effective transfer rate to streaming transfer rate. Calculate the utilization of the disk drive for each of the four transfer sizes given in part (i).
- (iii) Suppose that a utilization of 25 percent (or higher) is considered acceptable. Using the performance figures given, compute the smallest transfer size for disk that gives acceptable utilization.

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