4.	Hov	v the deadlocks can be avoided? Explain with the help of necess	ary
	algo	prithms.	10
5.	Ехр	lain readers and writers problem in process synchronization.	10
6.	(a)	Why disk scheduling is necessary? Explain the different seek optimizatechniques.	tion 5
	(b)	Describe the different mechanisms used to protect a file.	5
7.	(a)	Explain the design principles of Dnix.	5
	(b)	Write a short note on Unix file system.	5
8.	(a)	Explain the methods of dead lock prevention and avoidance.	5
	(b)	Write briefly on fragmentation and swapping.	5

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