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## BCA/M-19 **OPERATING SYSTEM-II** Paper-BCA-362

Ti	me al	llowed: 3 hours]	[Maximum marks: 8
No	ote:	Attempt five questions is unit. Question No. 1 is c	n all, selecting one from eac
		Compulsory	BE
1.	(a)	What are the issues in dire	ectory implementation? Discuss
	(6)	Discuss Disk Structure.	and Montage Laid The 4
	(c)		pport for offline and online
	(a)	Discuss chmod command	in Linux using examples. 4
	/	Unit-	-1
2/	(a)	What is critical section? I for critical section problem	Explain the two-process solution
	<b>(b)</b>		by directory system ? Explain
3.	anu	at is a semaphore? How B Dining-philosopher classical olved using semaphores?	ounded-Buffer, Reader-Writer al synchronization problems can 16
	/	Unit-	
4.	Disc	cuss the disk scheduling algo	orithms with suitable examples.

Explain the criteria and situation where these algorithms will

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perform better.

5.	(a)	What are the factors that decide swap-space size? 6
	(b)	Discuss remote login, data migration and computation migration.
		Unit-III
6.	(a)	Discuss the features of Linux and compare it with other operating systems.
	(6)	Explain the Linux commands that are used for arithmetic operations.
	(6)	How can input and output redirection be done in Linux?
7.	(a)	Discuss various file and directory related commands in Linux.
	(b)	Explain the system booting and shutdown processes in Linux.
		Unit-IV
8.	(a)	Explain the features of a Linux filename. What are various categories of files in Linux?
	(b)	Discuss the following commands:
فللو		(i) at
		(ii) batch (iii) time
9.	. (a)	What is a shell script? Discuss build-in and user-defined variables.
	(b)	Write a shell script to generate first n prime numbers. 8