Roll	No.	***********

Total Pages: 03

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OPERATING SYSTEM-II BCA-362

Time: Three Hours] [Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions

carry equal marks.

(Compulsory Question)

1.	(a)	Describe Critical Section.	4
	(b)	What are the advantages of distributed systems?	3
	(c)	Explain the concept of pipe using example.	4
	(d)	Describe file attributes in linux.	2
,	(e)	Explain various modes of Vi.	3

Unit I

2. (a)	Write a note on Semaphore Implementation.	7
(b)	Explain the following classical problems	of
	synchronization:	
	(i) Bounded buffer problem	3
	(ii) The readers and writers problem	3
	(iii) The Dining philosophers problem.	3

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3.	(a) (b)	What do you mean by Critical Regions a Conditional Critical Regions? What are limitations. Explain various methods for Recovery of lost of stored on the harddisk. Unit II	11S 8
4.	(a)	Explain the following disk scheduling algorithms by using example:	hms
		(i) SSTF Scheduling	3
		(ii) C-Scan Scheduling	3
		(iii) Look Scheduling.	3
	(15)	Write short notes on the following:	
	(b)	(r) Remote login	3
		(ii) Remote file Transfer.	4
5.	` '	Explain Swap-space management in detail.	8
	(b)	· · · · · · · · · · · · · · · · · · ·	4
		(i) Data Migration	4
		(ii) Computation Migration.	
		Unit III	
6	(a)	by Limy distribution? E	4 xplain

	(c)	Explain the following commands in Linux: 63 (i) date (ii) who (iii) bc.
.	(a)	Explain with example at least six communication-
		oriented commands.
	(b)	Explain the following commands in Linux: 8 (i) Ps (ii) Cd (iii) Vdir (iv) Cat.
3.	(a)	Describe the structure of file system in Linux. Also explain file system types in Linux. 6
	(b)	Explain different disk related commands in Linux.
).	(a)	Explain the syntax of while, until and for loops.8
	(b)	Write a program to check whether a given number is prime number or not.