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Hall Ticket Number:													T 304	
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					II/I	V B.Te	ech (S	Supp	lem	entary) DEGREE	EXAMINATION	ON		
Nov	vem	ber,	201	19							$\mathbf{C}$	ommon to CSE a	nd IT	
		eme										<b>Operating Sys</b>	tems	
		ree H										Maximum: 60		
				. 1	1.	1								
				o.1 con								(1X12 = 12) (4X12=48)		
Answer ONE question from each unit.  1. Answer all questions									(1X12-48) (1X12=12)	,				
1.	a)					mpone	nts o	f a co	mp	uter system?		(17112 12	iviairs)	
	b)									PU utilization?				
	c)			tiate Th										
	d)	Def	ine a	system	call									
	e)			ait-for-										
	f)			a race c										
	g)			a Semaj										
	<ul><li>h) What does each entry in the page table contain?</li><li>i) What are the two forms of fragmentation?</li></ul>													
	i)			the tw butes o			iragn	nentai	ion	!				
	j) k)			tiate a f			ctory							
	1)						-							
	1)	What do you mean by page fault?  UNIT I												
2.	a)	Exp	lain l	oriefly	abou	t OS st	ructu	ires.		OTHE I			6M	
	b)	Explain briefly about OS structures. What are the functionalities of operating system? Explain in detail.											6M	
		(OR)												
3.	a)	Explain briefly about inter process communication.											12M	
		UNIT II												
4.	a)	, , , , , , , , , , , , , , , , , , , ,											6M	
	b)											6M		
					-	ŀ	roce	SS		CPU Burst Time	Arrival Time	-		
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					-		3			6 4	4	<u> </u> <del> </del>		
					_		4			5	6	_		
							5			2	8	-		
					L					<u> </u>	0	1		
		Peri	orm	non pre	eemr	tive CI	PU sc	hedu	ling	algorithms on the	given snapshot a	and analyze their		
			orma	•	1				٠			J		
		•								(OR)				
5.	a)									mplement mutual e			6M	
	b)	Wh	What is Readers-Writers problem? Give a solution to Readers-Writers problem using Monitors									6M		
_	,	UNIT III											0.5	
6.	a)	, , , , , , , , , , , , , , , , , , ,											6M	
	b)	Explain the Resource-Allocation Graph Algorithm for deadlock prevention. 6M (OR)											6M	
7.	a)	Wri	te the	differ	ence	hetwee	n int	ernal	and	` ,	ation		6M	
/.	b)	<u> </u>											6M	
	~)	UNIT IV										0111		
8.	a)	Write in detail about file attributes, operations and types and structures.											6M	



Describe the concept of directory structures.

(OR) Explain various file access methods with suitable examples.

Compare protection and security of an operating system.

b)

b)

9. a)