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	JAWA	HARÏAL NEI	RU TÉCHNOL	OGICAL UNIV	VERSITY HYD	ERABAD	
	В.	Tech IV Year I	Semester Exami	nations, Novem	iber/December	- 2016	
			Computer Science		ring)		•
	Part A Part B	uestion paper co is compulsor consists of 5	ontains two parts A y which carries 2 Units Answer a rks and may have	and B.	ver all question	Max. Marks: 75 as in Part A. ch unit. Each	
				u, o, e us suo qu	estions.		
			PAF	RT-A		(25 Marks)	
	l a) What a b) Explain	re filters? List on command subs	out various filters a	available in linux	x.	[2]	
	c) Disting	nish hetween di	up() and dup2() sy	stem colle		[3]	
11	d) Explain	the functional	ity of fcntl() functi	on i i i		[2]	
,i ,i.	e) Explain	the sleep() fun	ction with syntax.			[3] [2]	
	f) What is	s the difference	between wait() an	d waitnid()?		[3]	
		ntiate between	unnamed and nam	ed pipes.		[2]	
	h) With th	ne help of syntax	x explain popen();	function.		[3]	
:	1) Explain	the necessity of	of socket address s	tructures.		[2]	
11	J) Explair	how to perform	n IPC between pro	cesses over a ne	etwork	[3]	
		244 440	120 10 000	er de	land siz	Sec. 15	5.3 d.
			PAI	RT-B			
	2.a) Explair	Vorious proces	o satiliti an 11.1.1			(50 Marks)	
	b) Write a	shall corint the	s utilities available	e in linux.	· · · · · · · · · · · · · · · · · · ·		: : .:
÷ ,\$.	cumplie	d as arguments	t deletes all lines	containing a spe	ecified word in		
	supplie	d as arguments		n.		[5+5]	
	3 a) Explain	various nattern	ns and actions in a	R			
	b) Write a	n auck script to	perform simple ar	WK.		F# .: #3	
					ons	[5+5]	
	4 a) Explain	the support giv	en by kernel for f	ilas in datail		1 1	
	b) What d	o vou mean hy	a hole in a file? Ho	nes apagian.	oficals() result	in hala in a 61-0	L. J.
	Explain	with an examp	de program	ow does the use	of iscek() result		
				R		[5+5]	
	5. Explain	the file and rec	ord locking techn	iques with relev	ant example cod	e sninnet	*
4	110	\$ 6 %6	3 3 3	t f w	ant example cod	101	
j.	6.a) Explain	the layout of a	C program image	in main memor	v	[10]	
	b) Define	orphan process.	Write a program	to illustrate the	orphan process o	concept [5+5]	
				R	, , , , , , , , , , , , , , , , , , ,	ameept. [a.b]	
	 Explain 	the below syste	em calls with the h	nelp of syntax ar	nd examples:		
	a) kill	b) raise	c) alarm	d) pause	e) abort	[10]	
ì							
	To a second				F 1 1.	5t 3.	1 ii.
1			led by linux for se	1 1 2		,	
	8.a) Describe	the API provid	led by linux for se	monhann			
	b) Write a	program for loc	king a file using s	emaphores.		***	
						[5+5]	
	9.a) Define	innamed pipe?	How do we cre	ate unnamed =	ima? T- 1 · ·		
•	unname	l pipe.	1 1 1	and difficultied pi	per Explain th	e limitations of	
ti.	D): Write a	orogram to acce	nt the trice interes		7 7 ->	* Y *	1 : .:
	should b	e passed to pare	nt. Parent process	should print rec	ou eyregild, add	mem and result	
				princies	on the scree	n using pipes.	
	10. Describe	0 - 1	20			[5+5]	
	Describe	Socket system	calls used for con	nectionless prote	ocol with symtax	and uses	
			OF	111	(()		×
A. 4		the TDC a	OF C			[10]	
	b) Evaluate	the IPC function	mality provided L	and the second second	es with shared	1emory	`' .i, '
	c) Expiain i	iow to handle m	nultiple simultaneo	ous clients.	orange []	[5+5]	
						15731	

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