Total No. of Questions : 5]		18	SEAT No. : 20242		
PA-2554	ren 1000		[Total No. of Pages : 4		
	[5948]2104 M.C.A I (Management)				
n	Γ-14: OPERATING SY	-			
	(2020 Paftern) (S				
Time : 2½ Hours	12 00		(Max. Marks : 50		
Instructions to th			•		
	stions are compulsory. ear diagrams wherever necessary	ν.			
6	4.00				
QI) Attemptin	e following multiple choice of	uesti	ions. Select one best option from		
the choices		•	[20×½=10]		
a) Multip	programming of the computer	r syst	em 🔎		
i De li	ncrease computing speed	įį)	Reduces memory utiolization		
Sīi) I	ncrease CPU utilization	(D)	None of the above		
b) Which	are of the following is a syn	chron	Azation tool		
i) T	Thread	(a)	Pipe		
iii) S	emaphore	iv)	Socket		
c) Schedu	uling of threads are done by				
i) O	perating system &	ii)	Input None of the above t latency should be		
iii) O	output 5.	iv)	None of the above		
d) For rea	l time operating systems, in	terup	t latency should be		
i) m	inimal	ii)	maximum		
iii) ze	ero 🔊	iv)	dependent on the schedule		
e) Virtual	memory in memory hierarch	ny con			
i) RA	AM and Hard disk	ii)	Cache and Hand disk		
iii) Ca	ache and RAM	iv)	Cache and Hard disk All of the above		
f) When ex	xternal fragmentation will no	ot occ	MET OF		
i) Fir	st fit is used		3, 8		
ii) No	matter which algorithm is u	ised i	t will always occur		
iii) Wo	orst fit is used	0	$\dot{\Sigma}$		
iv) Bes	matter which algorithm is unorst fit is used st fit is used	JA)		
	8	9.	PTO		

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g	g) V	Which of the following is not an operating system?				
	i)	Windows		(ii)	Linux	
	iii) Ms office		iv)	DOS	
h) L	ogical memory	is broken into	blocks	of the same size called	
	i)	Frames	3	ii)	Pages	
	iii) Stores	0 60.	iv)	None of the above	
i)	W	hich of the foll	owing cannot	be sched	uled by the kernel?	
	i)	Process	So.	ii)	User Level thread	
	iii) Keniel level	thread	iv)	None of the above	
j)	Y	outube live stre	aming system i	s an exai	mple of the following:	
	i)	Hard RTOS		ii)	SOFT RTOS	
	iii	Firm RTOS		iv)	None of the above	
k)	In	hard real time	systems there i	s gurant	ee that	
	(0)	All critical t	ask are comple	ted in tin	ne (S.	
	ii)	Some critica	al tasks are allo	wed son	nedelay	
	iii)	Some critica	ıl tasks are give	n tolera	hce	
	iv)	None of the	above 2	3/2		
I)	W	hich are of the t	following is a r	eal time	operating system?	
	i)	RT Linux	2 8	ii)	Windows CE	
	iii)	VX works	4 7	iv)	All of the above	
m)	Wi	nat command in aracters contain	s used to counted in a file?	t the tot	W count Count P	
	i)	Count W	J.,	ii)	W count	
	iii)	WC		iv)	Count P. 90 89.	
n)	Wh	at a virtual mer	nory miss is ca	illed?	J 33	
	i)	l tit miss		ii)	Pagehit N	
	iii)	Page fault		iv)	Page miss	
o)	The	interrupt laten	cy should be _	-	for real time operating systems.	
	i)	maximum		ii)	zero	
	iii)	minimum		iv)	None of the above	
				Ope		
[5948]-1	04		2	8.		

	p)	In Ui	nix which system call c	reates tl	hene	w process?	
		i)	Create	c c	ii)	Fork	
		iii)	New	, ollo	iv)	None of the mentioned	
	q)	The	address of the next inst	ruction t	to be	executed for the current process	
		in st	ored in	ò			
		i)	Program state		ii)	CPU registers	
		iii)	Program counter		iv)	None of the above	
	r)		t is common problem		distr	ibuted system?	
		i)	Process synchronizati				
		ii)	Communication Synch	ronizat	ion	290	
		iii)	Deadlock problem				
		iv)	Power failure				
	s)	Wha	tas the output of the fo	ollowing	code	e OS = Umx	
	(och	100		1	5.0	
	5	(1)	40S	9		9.	
		2)	"\$OS"	1	5		
		3)	SOS.	00.	3.		
		4)	SOS	10	3,		
		1)	Deadlock problem Power failure this the output of the form 40S "SOS" 'SOS' SOS 1. Unix 2. Unix 3. Unit	X 4 Unix		Ptr 6	20
		11)	1. Unix 2. Unix 3,30	24.UIII	X	.>	•
		iii)	1. Unix 2. Unix 3. Un	1X 4. SC	15		
		iv)	1. Unix 2. SOS		<i>a</i> .	V 22.	
	t)	Whi	ch command is used to	print a		7 50	
		i)	Print S		ii)	Ptr 90 9.	
		iii)	lpr		iv)	None of the above	
						0,00	
Q2)	a)		t is paging? Explain w			[4]	
	b)	Wha	t is operating system?	Explain	n cha	racterities of OS. [6]	1
				OR	4	2, 4,	
	۵)		ain logical to physical				1
	a)	-	-		y IIIa	PPPING. 14	_
	b)	Expl	ain the states of proce	ess.	,	S. [4	ı
b) Explain the states of process. [4]							
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Q3) a)	What is PC \$?	[4]
b)	Explain Critical section concept with producer and consumer proble	em.[6]
	OR SOOR	
a)	What is deadlock? Explain how deadlock can be detected?	[6]
b)	Explain time slicing	[4]
Q4) a)	Describe the characteristics of Real time operating system.	[6]
b)	Explain the file systems used in windows operating system.	[4]
0)	OR OR	
a)	ON ON	[6]
b)	Explain any 4 commands of liners.	[4]
0)	Explain any 4 commands of most.	()
Q5) a)	Write a steel script for adding two numbers and storing the re-	sult in a
20, 4)	variable.	[6] 🚓
b)	Explain loops in Linux steel scripting.	147
	What is RTOS? Give one example with explanation. Write a short note on Kernel.	siati.
a)	What is RTOS? Give one example with explanation.	9 [6]
b)	Write a short note on Kernel.	[4]
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	o4 4 19 24 25 3.	
	JAC .	
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