freelance_Project available to buy contact on 8007592194

SR.NO	Project NAME	Technology
NOTE OF THE PERSON	E-Learning HUB	React+Springboot+MySql
	PG MATES	React+Springboot+MySql
3	Tour and Travel	React+Springboot+MySql
4	Marriage Hall booking	React+Springboot+MySql
5	Bus ticket booking Mini Project	React+Springboot+MySql
6	Quizz App /Exam Portal Mini Project	Springboot,MySql,JSP,Html
7	Event Management System	React+Springboot+MySql
8	Hotel Mangement System	React+Springboot+MySql
9	Agriculture Web Project	React+Springboot+MySql
10	AirLine Reservation System	React+Springboot+MySql
11	E-Commerce Web Project	React+Springboot+MySql
12	Sport Ground Booking	React+Springboot+MySql
13	CharityDonation web project	React+Springboot+MySql
14	Hospital Management Project	React+Springboot+MySql
15	Online voting System Mini project	Springboot,MySql,JSP,Html
16	E-Commerce shop mini project	Springboot,MySql,JSP,Html
17	Job Portal web project	React+Springboot+MySql
18	Insurance policy Portal	React+Springboot+MySql
19	Transpotation Services portal	React+Springboot+MySql
20	E-RTO Driving licence portal	React+Springboot+MySql
21	doctor Appointment Portal	React+Springboot+MySql
22	Online food delivery Project	React+Springboot+MySql
23	Muncipal Corporation Management	React+Springboot+MySql
24	E-College Portal Project	React+Springboot+MySql
25	Gym Management	React+Springboot+MySql
X 26	Bike Booking System Portal	React+Springboot+MySql
27	Food Waste Management Portal	React+Springboot+MySql
28	Online Pizza delivery Portal	React+Springboot+MySql
29	Fruite Delivery portal	React+Springboot+MySql
30	HomeRental Booking Project	React+Springboot+MySql
31	FarmerMarketplace	React+Springboot+MySql
30	HomeRental Booking Project	React+Springboot+N

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1)	DDE feature is suppo	orted by			
a.	IPC	b. Hard Real Time Sy	stem	c. Microkernel	d. Non
21	A			d 00 in nella d	
2)	A program that acts Kernel	as an interface betwee b. System call	•	icrokernel	d. Virtual Machine
a.	Kerrier	b. System can	C. IVI	iciokernei	u. Virtual Maciline
3)	The time sharing ope	erating system is also c	alled as		
a.	Multiprogramming	b. Multitasking	c. Both	d. None	
4)	IPC is required in				
a.	Multiprocessing	b. Single processing	c. Both	d. None	
_,					
5)	DDE stands for	F. alasas	h D	District to definition	_
a.	Distributed Dynamic istributed Data Excha	· ·	•	Distributed Exchange Pata Exchange	е
C. D	istributeu Data Excilai	nige	u. Dynamic L	dia Excilatige	
6)	A PCB is created who	en a process is	n IVI	antri 🗛	
a.	Running	b. Ready		c. Created	d. None
7)	ISR stands for		/_		
a.	Inter Service Routine	b. Interrupt	Service Routi	ne	
c. In	iterrupt Set Routin	d. Internal <mark>Ser</mark>	vice Routing		
			./ . /		
8)	•	unication can be done	J - 1		
a.	Mails	b. Messages		c. System o	calls d. Trap
9)	9The operating syste	em of a computer serve	as as a softwa	re interface hetween	the user and the
a.	Hardware	b. Peripheral	23 d3 d 301twa	c. Memory	d. Scree
				,	
10)	A thread is a	process.			
a.	Heavy Weight	b. Multiprocess	c. Inter Th	nread d. Lig h	nt weight
11)		e in stat	e if it was wai		
a.	Safe	b. Unsafe		c. Deadlock	d. All
42) -	Th - 11	.:	.:	the CDU is called	
		nism that enables a de	vice to notify		d. None of the above
a.	Polling	b. Interrupt		c. System Can	u. None of the above
13) I	IPC stands for				
-о, . a.	Inner Process Comm	unication		b. Inter Process Ca	all
c. In	nter Process Commun	ication		d. Intra Process Ca	all



14)	For non sharable resource	es like a printer, mutu	ial exclusion	:		
a.	must exist	b. must not exis	st	c. may e	exist	d. None of thes
		_				
-	The request and release of		·			
a.	command line statemer	•	•	tem calls	d. special pro	grams
	A machine that acts as a v			- Darl		d No.
a.	Virtual Machine	b. Virtual Enviro	onment	c. Both		d. Non
1 7 \	Companie and and used to a	ع مدواه مدام ما خوام				
	Semaphores are used to s race condition	•	ation	c. mutual exclu	ucion d hol	ady problem
a.	race condition .	o. process synchroniz	ation	c. mutuai exciu	u. bei	ady problem
12\	In which scheduling polici	es context switching	never takes	nlace		
a.	FCFS	b. round robin		ortest job first		d. Pre-empitiv
u.	1013	b. round robin	c. sinc	itest job mist		u. i i e empitiv
19)	Which technique was intr	oduced hecause a sir	ngle inh could	l not keen hoth t	he CPII and t	he I/O devices
bus	Sv2	7 0	74 //	, .	Α	
a.	Time-sharing b.	Spooling	c Preemntiv	e scheduling	Multinrogr	amming
u .	Time Sharing	Spooning	c. r reempth	e seriedaning	. Martiprogr	ишть
20)	Which of the following r	nemory allocation sc	heme suffers	from External fr	agmentation	? a.
_0,	\	demand paging c.		d. Paging	aginericación	
21)	A major problem with p	riority scheduling is	7 /			
, a.	Definite blocking	b. Starvation	7 7	c. Low priority	d. No	ne of the above
	, , , , , , , , , , , , , , , , , , ,					
22)	A state is safe if					
a. ′	It removes deadlock b	. It detects deadlock	c. It av	oids deadlock	d. Noi	ne
		V /				
23)	Banker's Algorithm is imp	lemented to				
	Detect Deadlock b.		c. Avoid Dead	dlock	d. All	
24)	The disadvantage of movi	ng all process to one	end of mem	ory and all holes	to the other	direction,
pro	oducing one large hole of a	available memory is :				
a.	the cost incurred b.	the memory used	c. the	CPU used		d. All of these
25)	Semaphore is a/an	to solve the critica	l section pro	blem.		
a.	hardware for a system	 	o. special pro	gram for a syste	m	
c. in	iteger variable	(d. None of th	ese		
26)	Virtual memory is normal	ly implemented by _	•			
					P. area	al All Cit
a.	demand paging	ľ	o. buses	c. virtua	alization	d. All of these

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27) When a thread needs to wait for an event it will

a. Block	b. Execute	c. Terminate	d. Update	
28) Paging incr	reases the time			
a. waiting	b. execution	c. context – switch	d. All of these	
29) Smaller pa	ge tables are implemer	nted as a set of		
a. queues	b. stacks	c. counters	d. registe r	rs
30)	is generally faster tha	an and	<u>_</u> .	
		b. best fit, first f		
c. worst fit, be	est fit, first fit	d. None of these	K	
31) The two st	eps of a process execut	ion are : (choose two)	ntri 🛦	
a. I/O Burst	b.	CPU Burst c	. Memory Burst	d. OS Burst
32) An I/O hou	ınd program will typica	lly have ·		
-	hort CPU bursts	ny nave .	b. many very s	hort I/O bursts
	short CPU bursts			hort I/O bursts
			7 /	
33) The operat	ting system manages		7 /	
a <mark>. Memory</mark>	b. Proces	c. Disk and I/O	devices	d. All of the above
34) The switch	ing of the CPU from on	e process or thread to anoth	er is called :	
a. process swit	ch b. task sw	c. context switch	d. All o	f these
35) Dispatch la	ntency is :			
		ess from running to the read	=	
		s from running to ready stat		U idle
		d start running another one		
d. None of t	inese			
36) A problem	encountered in multita	asking when a process is perp	petually denied neces	ssary resources is called
a. deadlock	b.	starvation c	. inversion	d. aging
•	nd program will typical			
	y short CPU bursts	b. many very sl	-	
c. many very sł	hort CPU bursts	d. a few very sho	rt I/O bursts	

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38) Multithreaded programs are:

a. lesser prone to deadlocks

b. more prone to deadlocks

c. not at all prone to deadlocks

d. None of these

- 39) To ensure that the hold and wait condition never occurs in the system, it must be ensured that : a. whenever a resource is requested by a process, it is not holding any other resources
- b. each process must request and be allocated all its resources before it begins itsexecution
- c. a process can request resources only when it has none
- d. All of these
- 40) The disadvantage of invoking the detection algorithm for every request is : a. overhead of the detection algorithm due to consumption of memory
- b. excessive time consumed in the request to be allocated memory
- c. considerable overhead in computation time
- d. All of these
- 41) A computer system has 6 tape drives, with 'n' processes competing for them. Each process may need 3 tape drives. The maximum value of 'n' for which the system is guaranteed to be deadlock free is:

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	2	b. 3	c. 4	d. 1
42) dea	4A system has 3 pro	cesses sharing 4 resources. I	f each process needs a max	imum of 2 units then,
a.	can never occur	b. may occur	c. has to occur	d. None of these
and	the sum of all their ma	resources of the same type. The same	than m+n. In this setup, dea	ndlock:
a.	can never occur	b. may occur	c. has to occur	d. None of these
a. b. c. Al	Abort all deadlocke Abort all processes	ng processes and eliminating d processes me until the deadlock cycle		that apply)
45) ⁻	Those processes should	be aborted on occurrence o	f a deadlock, the termination	on of which :
a. ′	is more time consumir		b. incurs minimum cost	
	fety is not hampered		d. All of these	
	,			
46) (Cost factors of process t	ermination incl <mark>ude : (ch</mark> oose	e all that apply) a.	
		eadlock process is holding	an enac apply)	
b.	CPU utilization at the			
C.		dlocked pro <mark>cess has</mark> thus far	consumed during its execut	tion
	f we preempt a resourcest be:	e from a process, the proces	ss cannot continue with its	normal execution and it
a.	aborted	b. rolled back	c. terminated	d. queued
-		tate, the system needs to ke b. roll back the process c.		·
49)	If the resources are alv	ways preempted from the sa	me process, ca	an occur.
a.		b. system crash	c. aging	d. starvation
EU/ -	The colution to stanistic	on is:		
	The solution to starvation the solution to starvation.	NI IS : ks must he included in the c	rost factor	

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b. c. d.	the number of resources must be incresource preemption be done instea All of these		e preemption	
Non	The strategy of making processes that preemptive scheduling ortest job first	are logically run b. Preemptive d. First come I	escheduling	suspended is called: a.
52) c. B	Scheduling is: allowing a job to use the processor oth i and ii		b. making proper u d. None of these	use of processor
53) ^v a.	Which one of the following is not shar program counter b. stac	ed by threads? k mentioned c	. both (i) and (ii)	d. none of the
54) \	When the event for which a thread is I	olocke <mark>d occurs</mark> ,	a.	
-	ad moves to the ready queue	b. thread rem	ains <mark>blocked</mark>	
c. t	hread completes	d. a new threa	ad is provided	
56)	The register context and stacks of a th	read are dealloc	a <mark>ted whe</mark> n the thread	
a.	terminates b. bloc			pawns
57)	Thread synchronization is required be	cause		
a.	all threads of a process share the sar	ne address space	e	
b.	all threads of a process share the sar	ne global variabl	es	
c.	all threads of a process can share the	same files		
d.	all of the mentioned			
	The kernel keeps track of the state of			a.
Proc		ser control block		
c. M	emory control block d. N	one of the above	9	
59)	In the multi-programming environmenta. Greater than 100			number of process. More than one

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60)	Which of the follo	wing statemer	nt is not true?					
	Aultiprogramming i	-	_	b. Multi-user c	-	-	_	
c. N	Aultitasking does no	ot imply multip	orocessing	d. Multithrea	ding implies	s multi-use	er	
61)	Saving the state of	the old proce	ess and loading	the saved sta	te of the ne	w process	is called	•
	a. Context	Switch	b. State	c. Multi progr	ramming	d. Non	e of the above	
62)	Resource locking _	·						
a.	Allows multiple ta	sks to simulta	neously use re	source				
b.	Forces only one ta	sk to use any	resource at a	ny time				
C.	Can easily cause a	dead lock con	dition					
d.	Is not used for disl	c drives						
		C1.	0	1/		· A		
	Operating system is	A . 10 11 11 11 11 11	ıram	IVI a	ntri			
a	A collection of har			. A collection of	•	out devices	•	
c. A	collection of softwa	are routines		d. All of the ab	oove			
64)	Piece of code that	only one thre	ad can ex <mark>ecute</mark>	e at a time is ca	alled			
a.	Mutual Exclusion	b. Critical	Section	C.	<mark>. Syn</mark> chroniz	ation d	. All of these	
CE)	I/O function allow	s to ovehange	data directly b	otwoon an	/ /			
65)	I/O function allow Process States	V =	Registers		I/O modul	o and proc	essor d. I/o d	ovicos
	Frocess states	J.	Registers	/	. I/O IIIOdul	e and proc	essoi u. 1/0 u	EVICES
66)	Memory of compu	iter system fo	r storing provi	des				
a.	array of character	s b. array of	falphabets	c. array o	of words	d. array d	of numbers	
67) I	Processor-I/O involv	ves data transi	ferring betwee	n				
a.	Computers		Processor and		c. Reg	gisters	d. User	
68)	Invalid memory	access to com	puter system i	s a	í	a. trap		b.
pro	gram c	. process	d. interrupt			-		
69)	The directory co	ntains special	files associate	d with input o	utput devic	es such as t	terminals, line	printe
etc	a. /etc b	. /dev	c. /bin		d. /device	e. /mnt		
70) cert	The utility progr	am that searc	hes a file, or m	ore than one f	file, for lines	s which con	ntain strings of	а
a Fi	•	c t	r d locat	e enr	f search	1		

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		system contains the m f blocks reserved for inc		nformation about the file sys [.] e list etc	tem such as file
a.	Inode block	b. Super block	c. Boot block	d. Data block	
72) l	Jnix OS was first deve	loped at			
a. M	icrosoft Corp, USA		b. AT & T Bell	Labs , USA	
c. IB	M , USAd.Borlan		d. Internation	a, USA	
73) I	nternal value associat	ed with the standard e	rror device.		
a.	0	b. 1	c. 2	d.9	e.3
74)	Diameter Control	<i>, , , , , , , , , , , , , , , , , , , </i>		using which of the following	
	dup	b. In	c. name	d. fork	e. cp
751	Which command dis	nlave all information ab	ant overviews	om process?	
75)	•	plays all information at			0 00 11
a.	ps	b. ps -f	c. ps -ef	d. ps –a	e. ps -u
-	•	ich manages the r <mark>esou</mark> nunication lines <mark>and an</mark>		er system, keep track of the d	isks, tapes,
a.	Schedular b. Ker	nel c. Shel		d. Resource manager	e. System call
77) (Chmod 754 on a file	V /			
a. all	ow group and other t	o read , write	b. allow owne	er to only read	
c. al	low others to only rea	ad	d. allow grou	up to only execute	
78)	If your process refuse	es to die with kill comn	nand in the nor	mal number, signal number o	ption used is
a.	13	b.9	c. 3	d.0 e.99	
79)	When we are execut An Interpreter	ing a shell script the sh b. A Compiler		c. An Operating System d. I	None of the above
80) a.	A null variable X can X=	be created using b.X="	c.X=""	d. all the abo	ve

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d.5

a. halts the system 1 **b.0** c. h 82) What would the following file permissions mean "rwxr-xr—"? a. Read, write and execute permission for everyone. Read, write and execute permission for the file owner, read and execute permission for the group, and only read permission for all others. The file owner is the only one who can execute the file. c. People who do not own the file and are not in its group, can only run it. System and Network d. Administration-I 83) A hierarchical structure consisting of directories and files Track b. cylinder c. partition d. filesystem a. 84) Which of the following is not a component of a user account? home directory b. password c. group ID d. kernel a. 85) The redirection symbol for output is b.< a. c.^ d. | 86) To find out a file's inode number, use this option on the "Is" command. a. i b. -inode c. -inum d. -in By default, "ps" command will list All processes running of a current users in all terminals a. Only processes running in that terminal of the current users b. All processes for all users c. Processes for other users only d. 88) Which of the following is not a major Unix shell? C shell b. WIN shell c. bash shell d. Korn shell

89) The purpose of the PATH variable is to a.

Show the current directory

- Show the directory path of a file
- Tells the shell what directories to search when a command is entered c.
- d. Tells the shell in which directories new file can be created

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	The run configues	uration file in Vi is call b. virc	led	c. bashrc	d. exrc		
a.	CSITIC	D. VIIC		c. basilic	u. exic		
91)	Use the follow	ing command to save	and exi	t from Vi.			
	ZZ	b.:w	c. :q!	d. wq		e. Both a and o	d option
92)	Which of the fo	ollowing Unix utilities	are not	commonly used to p	rocess regular ex	pressions?	
a. gr		b. sed	c. cut	, .	d. awk	•	
02) 1	Albiah fila aantu	ala tha initialiantian n					
93) v a.	wnich file contro Fstab	ols the initialization p b. inittab	rocess?	c. sysconfigtab	d. gettytab		
		Shriv	an	n Man	tri		
			resses,	s <mark>o that users do not h</mark>	nave to remembe	rs IP addresses,	This
	ociation is the jo	- No		A			
a.	IPN	b. DNS		c. INS	d. TCP	e	. IP
95) N	New users are a	dded into this file.					
a.	/passwd	b. /usr		c. /etc/passv	vd d./hom	e	
06\ 5			A	7. / /			
96) г а.	assing informat Program intert	tion between progran	ns is cai		ommunication		
	terprocess com			d. Task comn			
	•						
-			ubshells	you execute using co			
a.	Import	b. global		c. export	d. set	е	. path
98) เ	∣ Jser request ba	ckground execution o	f a prog	gram by placing what	at the end of the	command line	
a. ′	#	b. @	, ,	c. &	d. *		.!
٥٥١							
99)	With a umask v	value of 12, What are brw-rw-r —		fault permissions assig -xr-xr— dr	gned to newly cre w-rw	eated files? a.	
	-VV-AAA	Ø1 W-1 W-1 ─	C1-	Ai Ai — Ui	VV 1 VV		
100)	The tar comma	and is used to					
a.	Print the conte	nts of a file		b. Reformatting a file	e before printing		

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a.

c. Making archive tapes

d. Merging a file

101) Which one is not a characteristic of pipes

Connect commands

- Multiple pipes can be used on a command line b.
- Can create individual files for every process output c.
- d. Can also be used with |tee symbol
- 102) To create a hidden file in unix system
- Filename typed in upper case
- c. Filename containing # anywhere

- b. First character of filename is. (dot)
 - d. First character of filename is \$.

- 103) The "nice" command is used to
- Communicate with other users a.
- Improve relationships b.
- Change Priority levels of running processes c.
- Create processese. format a document so that its look nice d.

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104) The	letters	TCP/IF	stand	for
----------	---------	--------	-------	-----

- a. Telecommunication Control Program/Internet Program
- b. Transmission Control Protocol/Internet Protocol
- c. Teleprocessing Conversion Program/Internet Program
- d. None of the above
- 105) Which special variable contains the PID of its own process?
 - a. \$job
- b. \$\$

- c. PID
- d. \$ps
- 106) The process that needs to run in the background as a daemon to ensure that logging happens is:

 telnetd

 b. syslogd

 c. fsck

 d. All of these
- 107) The minimum number of link for a directory is
 - a. 1
- b. 2
- c. 6
- d. 3
- e. 5

- 108) Answer the following:-
- a. What is the difference between the two commands.
- b. \$ cat < fileone > filetwo 2> errorlst
- c. \$ cat > filetwo 2> errorlst < fileone
- d. Ans: It's a same command, the order of redirection make no difference
- 109) What is the meaning of exit status value and how can we access the exit status value of any command Ans: Exit status meaning the command return value to the environment indicatingit is successfully executed or have error

Exit Status value is stored in environment variable \$?

110) Differentiate between Relative path and Absolute path

Ans:Relative path is path relative to the current director, so its start with either. or directory name, Absolute or full path always start with /that is root so user can be in any directory it will direct to that path only Write a command to substitute all occurrences of word "printf "with "cout" from a file myprog.c Anssed'1,\$s/printf/cout/g' myprog.c

- 111) Explain the directories /bin, /dev and /mnt Ans: /bin contains all binary executable file or user utility
 - a. /dev contains all device files of the system
- b. /mnt is a directory for mounting devices
- 112) What is operating system?
- a. collection of programs that manages hardware resources
- b. system service provider to the application programs
- c. link to interface the hardware and application programs
- d. all of the mentioned

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113)	To access the services of	of operating s	ystem, the i	nterface is provi	ded by the
	a. system calls	b. API c. l	ibrary d	. assembly instru	ctions
114)	Which one of the follow	wing is not tru	ıe?		
a.	kernel is the program t	•		al core of the ope	erating system
b.	kernel is the first part of			•	<u> </u>
c.		-	=		running operating system
d.	kernel remains in the n				
115)	The systems which allo	ws only one p	rocess exec	ution at a time, a	are called
a. ur	niprogramming systems		b. unipro	cessing systems	
c. ur	nitasking systems	C	l. none of th	ne mentioned	
116)	What is the ready state	- MILE AND AND A SECTION AND ADDRESS AND A	AR - 30 SEC - 307 - 307 - 307	Man	tri
a.	when process is sched				
b.	when process is unable	0.	some ta <mark>sk h</mark>	as been complet	ed
С.	when process is using t				
d.	none of the mentioned				
117)	The number of process Output	es completed b. Throughp			a. Capacity
118)	The state of a process i	s defined by :			
a.	the final activity of the	Value of the same		he activity just e	xecuted by the process
	e activity to next be exe	· V			ent activity of the process
119)	Which of the following	is not the sta	te of a proc	ess?	
a.	New k	o. Old		c. Waiting	d. Running
120)	The Process Control Blo	ock is:			
a.	Process type variable		b. [Data Structure	
c. a	secondary storage section	on	d. a Bloc	k in memory	
121)	The degree of multi-pro	_			
a.	•	•			of processes in the ready queue
c. th	e number of processes	in the I/O que	eue	d. the number	of processes in memory
122)	The objective of multi-	orogramming	is to: (choo	se two)	

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Have some process running at all times b. Have multiple programs waiting in a queue ready to run c. To minimize CPU utilization d. To maximize CPU utilization 123) The processes that are residing in main memory and are ready and waiting to execute are kept on a list called b. ready queue a. job queue c. execution queue d. process queue 124) The interval from the time of submission of a process to the time of completion is termed as waiting time **b. turnaround time** c. response time d. throughput a. Which scheduling algorithm allocates the CPU first to the process that requests the CPU first? 125) a. first-come, first-served scheduling b. shortest job scheduling d. none of the mentioned c. priority scheduling 126) Time quantum is defined in shortest job scheduling algorithm b. round robin scheduling algorithm c. priority scheduling algorithm d. multilevel queue scheduling algorithm 127) An interrupt breaks the execution of instructions and diverts its execution to a. b. Counter word register Interrupt service routine c. Execution unit d. control unit 128) How does the processor respond to an occurrence of the interrupt? By Interrupt Service Routine b. By Interrupt Status Routine c. By Interrupt Structure Routine d. By Interrupt System Routine 129) On getting, an interrupt, CPU finishes the current instruction and moves to interrupt service routine immediately moves to interrupt service routine without completing current instruction [b. releases the control on I/O lines and memory lines c. makes the peripheral device, which requested the interrupt wait for fixed interval of time d. 130) Round robin scheduling falls under the category of : Non preemptive scheduling b. Preemptive scheduling c. Preemptive and Non-preemptive d. None of these 131) The portion of the process scheduler in an operating system that dispatches processes is concerned with assigning ready processes to CPU b. assigning ready processes to waiting queue c. assigning running processes to blocked queue d. All of these

132) The FIFO algorithm:

- a. first executes the job that came in last in the queue
- b. first executes the job that came in first in the queue



c.	first executes the	job that needs minimal pro	ocessor		
d.	first executes the	job that has maximum pro	cessor needs		
-	Under multiprogra	ımming, turnaround time	for short jobs is usu	ally and that for lon	g jobs is
a.	Lengthened; Short	tened	b. Sł	nortened; Lengthened	
c. Sł	hortened; Shortene	d	d. Sh	nortened; Unchanged	
a.	memory manager		b. CPU	c. CPU manager	d. user
-	Memory managen in main memory is	•	stem stores and ret	trieves data from secondary st	orage for
a.	fragmentation	Shrirb. pagi	Man Man	c. none of the mentioned	
136)	Operating System c. each instruction	maintains the page table on d. each addr	/ /	b. each thread	

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13 <i>/</i>) a.	operating system	b. CPU	c. user processes	d. All of these
138) a. b. c. d.		ained in a single tained in a single	contiguous section of memory e contiguous section of memory	
-		ded into several	fixed sized partitions, each partit	ion may contain a.
exac	tly one process		b. atleast one process	
c. m	ultiple processes at or	nce	d. None of these	
the r	In fixed sized partition number of partitions e memory size	b. the	multiprogramming is bounded by CPU utilization All of these	. a.
141)	In internal fragmenta	tion, memory is	internal to a partition and	
a.	is being used	No. 1	t being used c. is always	used d. None of these
	J			
142) a. b. c. d.	•	I <mark>dress space of a</mark> sses to be allo <mark>ca</mark>		
143)	External fragmentation	on exists when		
a.			y a request but it is not contiguo	us
b.	the total memory is i	-	•	
c.	•		nen the total memory is free d. N	one of these
a	When the memory al internal fragmentation that it is and b	•	cess is slightly larger than the pro- b. external fragmentation d. neither a nor b	
145) a.	Physical memory is be frames	roken into fixed- b. pages	sized blocks called c. backing store	d. None of these

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146)	1 Logical memory is b	proken into blocks (of the same size (alled	•	
a.	frames	b. pages	c. backing st	ore (d. None of the	ese
147)	The size of a page is t	ypically:				
a.	varied	b. power of 2	c. power of	4 (d. none of the	ementioned
148)	Because of virtual me		=		rocesses	b.
	threads	c. instructions	d. none of	the menti	oned	
149)	Swap space exists in					
a.	primary memory	b. second	ary memory	c. CPU	mentioned	d. none of the
-	When a program tries	s to access a page t	that is mapped in	address sp	pace but not l	oaded in physical
a.	segmentation fault o	ccurs b. fatal error	occurs c. pa	ge fault oc	curs d. no e	error occurs
151)	CPU Scheduling is the	e basis of	operating syste	em		
a.	Batch	b. Uniprogrammi	ng c. M	ultiprogran	mming	d. Monoprogramming
152)	CPU performance is r	neasured through				
a.	Throughput	b. MHz	7 /	c. Flaps		d. None of the above
153)	Process is			-//		
a.	Program in high level	l language kep <mark>t on</mark>	disk		b. Con	tents of main memory
	program in execution	7,000				in secondary memory
154)	Which among followi	ng scheduling algo	rithms give minir	num avera	ge waiting tim	ne
a. FC	FS b. SJF	c.	Round robin	(d. Priority	
155)	Paging					
a.	solves the memory f	ragmentation prob	olem	b. allow	s modular pro	ogramming
c. all	ows structured progra	amming	d. a	voids dead	dlock	
156)	Virtual memory is					
a.	An extremely large m	nain memory		b. An ex	tremely large	secondary memory
c. A	An illusion of extreme	ly large main mem	n ory d. <i>A</i>	A type of m	emory used i	n super computers.
157)	The two steps of a pr	ocess execution ar	e: (choose two)			
	O Burst	b. CPU Burst	c. Memory Bu	rst d. (OS Burst	



158)	An I/O bound process will typic	cally have:			
a. a	few very short CPU bursts	b. n	nany very short I/O b	oursts	
c. m	any very short CPU bursts	d. a	few very short I/O b	oursts	
159)	A process is selected from the	queue by the _	scheduler,	to be executed	
a. bl	ocked, short term	b. wait, long term	c. ready, short t e	erm d.	ready, long term
160)	With round robin scheduling a	lgorithm			
a.	using very large time slices co	nverts it into First com	e First served sched	uling algorithm	1
b.	using very small time slices con	nverts it into First come	First served schedu	ling algorithm	
c.	using extremely small time slice	es increases performar	nce		
d.	using very small time slices co	nverts it into Shortest J	ob First algorithm	A ^c	
	Cha	THE CHARA T	1 materi	\triangle	
161)	Who is called a supervisor of c	omputer activity?	lunuri		
·		ating System		ce /	d. Control Unit
162)	The kernel keeps track of the s	state of each process by	using a data structu	re called a.	
,	Process control block	b. User control block			
c. M	emory control block	d. None of <mark>the abov</mark> e			
163)	scheduler selects the	e jobs fr <mark>om the pool</mark> of	j <mark>obs and</mark> loads into t	he ready queu	e.
a.	Long term b. Short		Medium term	d. None of the	
	_				
164)	What is Thrashing?				
a.	A high paging activity		b. A hig	gh executing ac	tivity
c. Aı	n extremely long process		d. An ex	ctremely long vi	irtual memory
					•
165)	Poor response times are cause	d by			
a.	Busy processor	o. High I/O rate	c. High paging	rates	d. Any of above
166)	If process is running currently of	executing, it is in runnir	ng		
a.	Mode b. Proce	SS C.	State	d. Prog	ram
167)	Microkernel architecture facilit				
a.	Functionality k	o. Extensibility	c. Reliability	d. Port	ability
168)	Privileged mode of operating s	ystem mode is a			
a.	user mode b. kerne	l mode c.	system mode	d. both b and o	
a.					



•	An optimal scheduling a cesses is	algorithm in term	s of minim	izing the average	e waiting time o	of a given set of
a.	FCFS scheduling algorit	hm		b. Roun	d robin schedu	ing algorithm
c. SI	norest job - first schedul	ing algorithm		(d. None of the a	above
170)	Which of the following	memory allocation	on scheme	suffers from Exte	ernal fragmenta	ation?
a.	Fixed Memory Partition	b. Dynami	c Memory	Partition	c. Pagin	g d. None
171)	Which of the following	is crucial time wh	nile accessi	ng data on the di	sk?	
a.	Seek time b. Rota	ational time c.	Transmissi	on time o	d. Waiting time	172. A program at
172)	the time of executing is	called				
a.	Dynamic program	b. Static pi	rogram	c. Binde	d Program (d. A Process
-	Using Priority Schedulin In their priorities in the o	1	W 6		A CONTRACTOR OF THE PARTY OF TH	-
P3:	2:4,					
P4:	1:5,					
P5:	5 : 2.					
a.	8 milliseconds	b. 8.2 mill	liseconds	c. <mark>7.75 mil</mark> liseco	onds d	d. 3 milliseconds
174)	A process is created an	d initially pu <mark>t in t</mark>	he	_		
	ready queue	b. job que	eue	c. I/O qu	ueue	d. None



175) PCB =				
a. Program Control Block b. Process Control Blockc. Process	b. Process Control Blockc. Process			
c. Communication Block d. None of the above PCB				
176) Dound robin cohoduling is assentially the propagative version of				
176) Round robin scheduling is essentially the preemptive version of	L			
a. FIFO b. Shortest job first c. Shortes remaining d. Longest time first	L			
177) 1 FIFO scheduling is				
a. Preemptive Scheduling b. Non Preemptive Scheduling				
c. Deadline Scheduling d. Fair share scheduling				
178) In priority scheduling algorithm				
a. CPU is allocated to the process with highest priority				
b. CPU is allocated to the process with lowest priority				
c. equal priority processes can not be scheduledd. none of the mentioned				
d. none of the mentioned				
179) In priority scheduling algorithm, when a process arrives at the ready queue, its priority is compared w	/ith			
the priority of				
a. all process b. currently running process c. parent process d. init proce	SS			
180) 1 Turnaround time is				
a. the total waiting time for a process to finish execution				
b. the total time spent in the ready queue				
c. the total time spent in the running queue				
d. the total time from the completion till the submission of a process				
191) Waiting time is				
181) Waiting time isa. the total time in the blocked and waiting queues				
b. the total time spent in the ready queue				
c. the total time spent in the ready queue				
d. the total time from the completion till the submission of a process				
182) Scheduling is done so as to :				
a. increase the waiting time b. keep the waiting time the same				
c. decrease the waiting time d. None of these				
183) Response time is				
a. the total time taken from the submission time till the completion time				
b. the total time taken from the submission time till the first response is produced				



C.	the total time taken from submissio	on time till the response is output d. None of these	
184)	The FCFS algorithm is particularly tro	oublesome for	
a. tir	ne sharing systems	b. multiprogramming systems	
c. m	ultiprocessor systems	d. Operating systems	
185)	One of the disadvantages of the prio	ority scheduling algorithm is that :	
a. it	schedules in a very complex manner	b. its	
sche	duling takes up a lot of time		
	can lead to some low priority proces e of these	ss waiting indefinitely for the CPU d.	
-	CPU scheduling decisions takes place	e under following conditions a. When a process switch	es from running
a.	When a process switches from runn	ning state to waiting state	
b.	When a process terminates	am Mantri	
c.	All of the Above	CONTRACTOR OF THE CONTRACTOR O	
187)	What is meant by throughput?		
a.	Number of processes running in the	syste <mark>m </mark>	
b.	Number of process completed per u	unit <mark>time by</mark> the syst <mark>em</mark>	
c.	Number of processes waiting for CP	'U p <mark>er unit t</mark> ime	
d.	None of the above		
188)	When CPU becomes idle which sche	e <mark>duler is</mark> called?	
a. S	nort term scheduler b. N	Medium term s <mark>cheduler </mark>	d. Any
189)	What is a medium-term scheduler?		
a.	It selects which process has to be br	rought into the ready queue	
b.	It selects which process has to be ex		
c.	•	from memory by swapping d. None of these	
	·		
190)	What is Turnaround time of a proces	ss? a.	
Time	e spent in waiting queue		
b.	Time spent in ready queue + waitin	ng queue + running state	
c.	Time spent in ready queue + waiting	g queue	
d.	Time spent in ready queue		
191)	Which scheduler selects which proce	esses should be brought into the ready queue?	



a. Re	eal-term		b.Long-term	c. Mediur	n-term	d.Short-tern	า
192)	A page fau	It occurs					
a. ,	. •	page is not in	the memory				
b.		page is not in page is in the r	-				
			•	tata			
c.			the blocked s	tate			
d.	when the	process is in th	ie ready state				
193)	A CPU bou	nd process wi	ll typically have	e			
a. m	any very lo	ng CPU bursts	5	b. many v	ery short I/O bu	ursts	
c. m	any very sh	ort CPU burst	S	d. a few v	ery short I/O b	ursts	
194)	The chunks	s of a memory	are known as				
a. Se				c. Page	d. Frame		
				to preventing pag		· A	
	ging		10 /10 TU A TU TU A / A	c. Hit ratio	d. Address loc	ation resolut	ion
u	.00	21.11,23,14	in Both		ui, iuu ees iee	acioni resolut	
196)	Conving	a process from	n memory to d	lisk to allow space	e for other proc	ess is called	
•	wap out	b. Dead	\ . A\ .		d Paging d. Pa		
a. 5	wap out	b. Dead	IIOCK	c. Deman	uraging u.re	ige raute	
107\		is a large ke	rnal containing	r virtually the con	anlete energtin	a sustana	
197)		_	V -	y virtually the con	· /· //	•	
	_			ivers and memor			Maarakarnal
a. IVI	ultilithic ke	rnei	b. Ivionoiii	thic kernel	c. Micro kerne	ı a.	. Macro kernel
198)	Δ	architectu	ire assigns only	v a few essential t	functions to the	kernel inclu	ding address spaces,
			(IPC) and basic		dictions to the	. Kerrier, irrera	iding address spaces,
	onolithic ke		b. Micro k	_	c. Macro kerne	al d Mi	ni kernel
a. ivi	OHOHUHU K	EITIEI	D. WIICIO K	emei	C. IVIACIO REITIG	ei u. ivii	III KEITIEI
100\	\A/:+b				مالم مانطينيسممس		
		•	•			•	s are waiting for the
				ocess can be runi			a different processer.
	•	ing, Multiprog	_		b. Multiprogra	•	_
c. IVI	ultıprograr	nming, Multip	processing		d. Uniprogram	ımıng, Multip	orocessing
200)	200) System call routines of operating system are mostly written in						
	a. C	b. C++	c. java	d. both a and b			
201)	How does	the Hardware	trigger an inte	errupt?			
a.			hrough systen	•			
b.	_	_		rrupt program			
c.	_		ram called syst				
	_		•	. •			
d.	Executing	a special opera	ation called sys	stem call			



•		ion of the Operating syster b. Disk management	n? c. Application man	nagement	d. Virus protection
a. theb. thec. the	information regar	containsding given page is valid or i ding given segment is valid ding given page table is val	or not		
	ry Semaphores ar ce allocation	e used for b. critical sections	 c. mutual exclusion	d. synchro	nization
a. Shortes	ch CPU scheduling st job first schedul y based scheduling		ive type from the follow Round robin schedulin It come first serve base	g	
a. disk op time since c. due to 207) Wha	eration	bility, when process comes process arrival d. A b. Loss of signal strengt	b. Il of the above		None of the above
Very simi	lar to the process ads have there ow	ct statement <mark>regardin</mark> g thre n address space they do no ne address space that is us	ot use the process addre		ess a.
a. merb. sortc. reso	at linker does? Iging object files Ing text and data Ingles symbols acrosof the above	ss modules			
	ranslation unit. A	if the definition of t	• •		
a. This po	ointer I	c. Opaque pointer c.	Function pointer	d. Nested poir	nter
211) Whi	ch statement is tri	ue for the deadlock?			



- a. It is very usual, when a process terminates, it became dead process and his lead to dead lock
- b. Deadlock arises when a process try to accessa non shareable resources
- c. Deadlock arises when process is holding some more resources that are already hold by some other process and no onewant to release their resources
- d. Deadlock arises when we try to lock the process and the process is in running state that lock become a dead lock

-		which kind of problem will	be eliminated?	
a. Sp	pooling	b. Polling	c. Job Scheduling	d. None of the above
213)	Copy-on-write cor	ncept is		
, a.		r two unrelated processes	_	
b.	• •	sses those created with the	e help of exec call	
о. С.	• •	nd of process no restriction	•	
d.	used by the relate	ed processes		- A
u .	ased by the relati	Shrivan	n Mant	11 A
21/1\	What are the reso	urces for the computer sys	tem? a	
	cycles	arces for the compater sys	terri: a.	
b.	System buses			
C.	•	code an d data structure		
d.	All of the above	code dii d data structure		
u.	7 in or the above			
215)	Which statement	s true from the following?		
•		eadlock state always		
		a deadlock state always		
с.		as a probability to be a de	adlock state	
d.	All are tgrue	as a probability to be a de	adiotic state	
	_	ith paging mechanism (pag	e-replacement techniq	ue) provides
	ntime relocatabilit			0.0) p. 0
	emory protection	d. All of the		
	, p. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
217)	With any Disk Sch	eduling Algorithms, Perforr	mance depends on	
-	umber of requests		•	
	pes of requests	d. None of the a	-	
- '	, , , , , , , , , , , , , , , , , , , ,			
218)	Which one is not a	part of the kernel?		
•	lemory manageme	•	b. Debuggers manag	ement
	terrupt Manageme		d. Timer and clock m	
-		ses can be active in a moni		
a. A	ny no of processes	b. Only one	c. Only two	d. None of the above



220) Which	i register is use f	or memory mar	nagement?			
a. base reg	ister		b. bou	ınd register	and stack pointe	
c. base and	d bound register	uit	d. bas	e and stack	pointer register	
221) What	is the use of the	program count	er register?	' a.		
It points to	the next progra	m in the execut	ion			
b. It poi	nts to the next i	nstruction state	ement in th	e program		
c. It poir	nts to the next b	lock of code in t	he execution	on		
d. None	of the above					
222) Which	of the following	stack operatio	n could res	ult as stack	underflow/	
a. is empty	, k	. pop	c. push	d. Two	or more of the abo	ve answers
223) Which	ı statement is tru	ıe?		7 /	- 4	
a. Cache m	emory is type of	the nonvolatile	ememory	// b.1	RAM stands for relia	able access memory
c . Cache re	sides between n	nain memory a	nd CPU	d. Har	<mark>d disk is made u</mark> p of	different layer of the RAM
224) Durinį	g process execut	ion, which state	transactio	n, is not po	ssible?	
	ate to running st				ite to block state	
c. block sta	ate to terminate	state	d.	block state	to ready state	
225) What	is process contro	ol block?				
a. It is d	ata structure tha	t represents t <mark>h</mark>	e process			
b. It is a	data structure, v	which is part <mark>of</mark>	the user spa	ace <mark>, and it</mark> r	represents the proce	ess
c. It is a	data structure,	which is pa <mark>rt o</mark> f	the kernel	space, and	it represents the p	rocess
d. It is no	ot a data structu	re which can be	e in virtual a	iddress spa	ce it represent the p	process
226) Paging	g leads to					
a. Internal	fragmentations	b. Ext	ernal fragm	nentations	c. Both 1 & 2	d. All of the above
227) Intern	al Value associat	ted with the sta	ndard erroi	device		
a. 0	b. 1	c. 2		l. 9	e. 3	
228) The re	direction symbo	I for output is				
a. >	b. <	c. ^	C	d.		
229) Which	n command will l	be used to displ	av the curre	ent user id a	and name?	
a. Wh		b. Which	-	Who am i	d. where is	
230) As an	abstraction, who	at operations a	oply to proc	esses?		
a. create	b. ex	•	status		of the above	



231)	Which comma	nd allow you to determii	ne if a host is connected	to the intern	et?
	a. cmd d. pwd	b. Is-la	c. ping		
232)	Computer that called	: handles concurrent use	rs and multiple jobs are		
a. C	lient	b. Network Client	c. Network serve	e rs d	. All of the above
233)	Which of the fo	ollowing make up DOS?			
a. B	oot files	b. File Management	files c. Utility files	d. All of the	above
234)	The file assign4	I.html has permissions to	o set as r w x r w x r w x	a.	
The	file is really a di	rectory and was named	incorrectly		
b.	Everyone can	read, write, and execute	the file	/	
c.	It is impossible	read, write, and execute for a html file to have p	ermissions set that way	1111	
d.	The file can no	t be viewed on the WW\	W		
235)		ollowing is true for DLLs?			
a.	•	loaded in to random acc		<mark>ith</mark> the main _l	orogram
b.		omote developing modu	lar programs		
C.	Both 1 and 2				
d.	None of the ab	oove		/	
2261	On a single pro	cessor multi-threading g	ronorally occurs by		
-	= -	ltiplexing b. Multi proc		hing	d. None of the above
237)	The ability of a	n Operating System to e	xecute different parts of	a program si	multaneously is known as
a. N	1ulti - Tasking	b. Multi progr	amming c. Multi -	- Threading	d. Multi – scheduling
238)	Which of the fo	ollowing is main objectiv	e of Disk Scheduling?		
a. T	o minimize seel	c time	b. To maximize turna	around time	
c. To	o minimize thro	ughout	d. To maximize band	lwidth	
2391	In which of the	following condition dea	dlock will occur? a.		
		nd wait; pre-emption; ci			
b.	Mutual exclusi	on; hold and no wait; pr	e-emption; circular wait		
c.		ion; hold and wait, pre-	•		
d.	Mutual exclusi	on; hold and wait; non p	re-emption ; circular wa	it	



	Which command will b	• •		· ·	d Nana of the al	2010
a. Da	ate-fri	b. Date-d fri	c. Cal-	u iri	d. None of the al	oove
	Which command will I a. Cut [option][FILE]	b. Print [op	otion][FILE].	••	ch FILE to standard	output?
C.CII	ip (option)(FILE)	a. Comm. jopt	1011][FILE]	,		
242)	Multiplexing of a singl	e physical resource ir	nvolves			
	ombining resources bas				g resources based	on space
c. Di	viding the resource bas	sed on time or space		d. All of the	above	
243)	When the processor is	in user mode, all add	dresses are			
a. Ph	ysical address	b. Logical address	c. Abso	olute address	d. Memory addr	ess
244)	What is an interrupt?	77 0	-		- A	
	It is an immediate tran	nsfer of control cause	d by an even	t in the syste	m7	
	Some interrupts can o				AT A STATE OF THE	
	d. None of the above					
245)	Plan ahead so that y	ou never get into a <mark>si</mark>	<mark>ituatio</mark> n wher	re <mark>deadloc</mark> k is	inevitable is called	l as
a. D	eadlock prevention b). Deadlock avoida <mark>nce</mark>	c. Deadlock	c <mark>recover</mark> y d.	Avoiding Mutual e	xclusion
246)	In which cituation a	process is provented	from process	ding bossuss	sama athar praca	es always
,	the resources it needs	process is prev <mark>ented</mark>	from procee	uing because	some other proces	os aiways
	cking	b. Deadlock	c Star	vation	d. Blocking	
a. Lo	CKIIIG	b. Deddlock	c. Star	vacion	d. Blocking	
247)	Which of the following	statement is false?				
-	A smaller page size lea		ıbles			
b.	A smaller page size lea	ads to move TLB miss	es			
c.	A smaller page size lea					
	A smaller page size re	duces paging I/O thro	oughout			
248)	Anything that can be u	used by only a single i	nrocess at an	v instant in ti	me is called as	
2 10,	a. Memory	b. Thread	or occas at arr	c. Space		d. Resources
	,			'		
249)	det	termines which proce	ss gets CPU a	and when		
a. Di	spatcher	b. Scheduler	c. Allocato	or d	. Process allocator	
250)	Which method is used	to eliminate fragmer	ntation after i	it occurs?		
	empaction b	-			the above	



251) Which method	od is used by memory to im	prove disk perform	nance is used?	
a. Disk Scheduling	g b. Disk caching	c. Both 1 & 2	d. None of the a	above
a. It is a solutio	g technique be used? n to external fragmentation allow a process to be allocat above	•		
253) 253. Which n	nethod is used by a progran	n to make request	to operating syste	em?
a. System call	b. CPU call	c. Memory N	Management	d. Interrupt call
	a computer, machine, election of it has been destroyed	•	lled as	n limited functionality ever d. Denial of services
		m Mo	ntri	
255) Memory allo				
•	nvolves specification of me of a more general action kno		its instructions ar	nd data
c. Both 1 & 2	or a more general action kin	DWII as DIIIUIIIg		
d. None of the	ahove			
d. Hone of the				
256) Which type o	of binding perform befor <mark>e th</mark>	e operation of a p	rogram begins?	
a. Static binding	b. Dynamic <mark>bin</mark>	ding c. Synchi	onous binding	d. Asynchronous binding
257) Which of the	following statement is true	for dynamic alloc	ation?	
a. Allocation is pe	rformed during execution o memory	f a program	b. Allocation d. All of t	n exactly equals data size he above
258) Pre-emptive	scheduling is used to tempo	orally suspending a	running process_	
a. To allow starvin	g processes to run	b. Before th	e CPU time slice e	xpires
c. When it reques	sts I/O	d. When into	errupt occurs	
259) The memory	allocated to a process cont	ains		
a. Code and non s	tatic data of the program to	be executed	b. Stack	
c. Program contro	olled by dynamic data		d. All of	the above
260) Which of the	following mode is performi	ng I/O operations	?	
a. Interrupt mode	=	= -	ory access mode	d. Safe mode
261) When a proc	ess terminates and all it's ch	nild process must a	also be termed thi	s situation is called as



a. Child termination	b.	Child parent termi	nation	
c. Spawn termination	d	I. Cascading termin	ation	
262) Which of the followin	g register contaiı	ns address of the n	ext instruction to be	executed by the CPU?
a. Program counter regist	er b.	CPU registers	c. Control regist	er d. Condition code register
263) When an interrupt ar	=	ecution and the sch	eduler selects some	other program for execution
a. Preemption	b. Nor	n Preemption	c. Priority	d. Interrupt Processing
264) 264. Page-replacements a. Memory contraction c. Memory protection	b. Compile tin	vides ne relocability f the above		
265) Swap space resides in a. SRAM b. DRA 266) Which of the followin a. LRU b. O		oy Linu <mark>x for page re</mark>		
267) Which of the following1) Dirty buffers in the di2) Each buffer in the case3) The vnode data struct	sk cache are writ he has not a buf	t <mark>en to th</mark> e cache w f <mark>er hea</mark> der that is a	<mark>llocat</mark> ed in a slab of	the slab allocator
268) A process sends data receiver. This type of transa. Synchronous	•		does not wait till the d. None of the a	·
a. Syncinonous	b. Asylicili olious	c. blocking	d. None of the a	bove
269) Which command wou a. mkdir b. dir	-	ate a sub-director in rm	n your home directo	ry?
270) Which command will a. calendar b. c		ar? d. view cal		
271) The interval between	en submission of	a request and the	first response to tha	t request is called as
a. Turnaround time	b. Time delay	c. I	Response time	d. Request time
272) A unique number is size and location of the fil			de table which gives	information on the type,
	b. Inode	c. Inode number	d. All of the	above



273)	Which of the follo	wing controls	the degree o	f multi programr	ming?	
a. Long term scheduler			b. Short t	b. Short term scheduler		d. None of the above
274)	How can you view	the permission	on-settings or	all files in the c	urrent directory?	
a. di	splayall	b. Is-I	c. listall	d. listdi	r	
275)	Which command	sends file con	tent to standa	ard output and li	st the content of sho	rt files to the screen?
	a. echo	b. cp		c. cat	d. None of th	ne above
276)	Which of the follo	owing stateme	nt is false?			
a.	Virtual memory i	s used only in	multi-user sy	stems		
b.	Segmentation suf	fers from exte	rnal fragmen	tation		
c.	Paging suffers fro	m internal fra	gmentation			
d.	Segmentation me	mory can be p	oaged	74 //		
		onr	iran	1 IVI a.	ntri	
				d scheduling pol	i <mark>cy, I/O bound proce</mark> s	sses may have to wait
long	g in the ready queι	ie waiting for a	a CPU bound	job to finish?		
a. A	ging	b. Prio	rity inversi <mark>on</mark>	c. Pr	riority Inheritance	d. Convoy effect
prod a. th c. nu	How can we detected in a virtual medical instruction set a sumber of processed Bootstrap loader	emory environ architecture s in memory	1 . /.	er of page frame b. page size d. physical mei	es that must be allocations and the second s	ated to a running
a. A	program, which re	sides in the us	ser space	b. A progra	m, which resides in	ROM
c. A	program, which re	sides in the RA	MA	d. A progra	m, which is a module	e of the kernel space
	POSIX pthread lib threads without t			x schedules	a.	
b.	user threads with	the help of lig	tht weight pro	ocess		
c.	user threads with	the help of ke	ernel			
d.	user threads with	the help of he	eavy weight			
281)	Segmentations le	ads to		_		
a. Ex	cternal fragmenta	tion	b. Internal fr	agmentation	c. Both 1 and 2	d. all of the above
282)	What is the funda	mental sched	uling block fo	r operating syste	em?	
a. Ke	ernel thread	b. F	Process Contr	ol Block (PCB)	c. Light Weight	Process d. User thread



283)	Which inter pro	cesses Communication mec	hanism is fastest t	to exchange the da	ta between processes?
	a. PIPE	b. FIFO	c. Share	ed Memory	d. Message Queue
2841	What ping comr	nand does?			
a.		CHO_REQUEST to network	hosts		
b.		CHO_REQUEST to network s			
D. С.		on ECHO REQUEST to networks	•		
d.		on ECHO_REQUEST to netwo			
u.	it serius reivii Tit	on teno_ktegotsi to netwo	ork severs ormy		
285)	How can we find	d out the free space size to ι	ıse on Linux Syste	em hard disk partiti	on?
	a. df-hs	b. freedisk-hs	c. fdisk	-hs d. N	lone of
	the above				
286)	How can we get	the information about the (CPU on the Linux	svstem?	
-	t /usr/cpuinfo			oot/proc/cpuinfo	d. cat /root/usr/cpuinfo
u. 0	c , a.o. , op a	Shriran		ntriA	
287)	Loader is use to	Dilliun	L TATELL		
a. ,		from harddisk to main mem	orv		
b.		riate program into the mai	•		
c.		ess and load in to the main r			
d.	•	ogram ready to load and load		ry is done by anoth	ner Process
			7 /	7	
288)	Where the main	system message log file info	ormation get stor	ed?	
-	ar/log/message		sr/log/message		src/log/message
-		289) Which command can			
	utdown-r now	b. Shutdowi		c. init 0	d. init 6
290)	What type of file	e system Linux is using?			
a. F <i>A</i>	T-32	b. NTFS	c. LFS	d. Ext3	
204\	NAVIs at the attended	al a saletta at the Control of			
•	icro kernel	el architecture for Linux?	a Manalith	aio kornol	d Unbridkorool
a. IVI	icro kernei	b. Macro kernel	c. Monolith	nic kernei	d. Hybrid kernel
292)	What happens w	hen a page fault occur for a	ı valid legal virtua	l address? a.	
	ess will terminate	· =			
	ocess will block				
b.	None of the abo	ve			
c.		restart after the page is bro	ought to the main	memory and page	table entry will
2021	Virtual mamara	with paging machanism (na	uga ranlacamant t	tochniquo) provido	c
-	ntime relocatabi	with paging mechanism (pa	-	c. memory provide	
a. ru	mine relocatabl	ncy D. III	CITIOTY EXCENSION	c. memory prote	ction u. An of the above



294) Which of the fol	lowing stack operati	ion could re	esult as stack	c underfl	ow? 1	
a. is	s_empty	b. Pop	c. P	ush	d. ٦	wo or more of the above answers	
295) How can we find	d out the free space	size to use	Linux systen	n hard di	sk partition?	
a. c	lf-hs	b. freedisk-hs	(c. fdisk-hs	d.	None of the above	
		_ means that the da				orded when an object of the subclass in piect?	S
	Slicing	b. Up casting		c. Down Cast			
297) Which CPU sche	duling algorithm is r	non- preem	ptive type fr	om the	following?	
4) a	. Shortest job firs	t scheduling		b. Ro	und rob	in scheduling	
c. P	riority based sche	eduling	(d. First come	e first se	rve based scheduling	
ാറം) Which custom of	all will you use to ge	t the peron	t of the proc	2000	747	
				A V AL 10-7	.ESS!	d. None of the above	
a. g	getp()	b. getppid()	c. getp	arentid()		d. None of the above	
299) m	eans that the data a	dded by a	subclass are	discarde	d when an object of the subclass is	
		by value or from a fu					
a. S	licing	b. Up casting	c. Dowr	n Casting		d. Name mangling	
300) 300. Which state	ement is false?					
a.	•	a tree associated w	ith a netwo	ork			
b.	A minimum spa				hat the t	otal edge weight between nodes is	
	nimized		اه مطلا ممینات	a subset diete.		voor on v 2 one officed modes, d. None	
C.	of the above	iing tree of a graph į	gives the sr	iortest distai	nce betv	veen any 2 specified nodes d. None	
301) An array is havir	ng 12 elements, wha	t will be th	e maximum	number	of comparisons that	
a. 1			c. 11				
302) Normally, when	a hardware interrug	ot occur				
a. n	node switch and o	context-saving occur	•	b. context-sv	vitch and	d context-saving occur	
c. B	Soth 1 & 2	_		d. None of th		_	
303) What happens v	vhen a page fault oc	cur for an i	nvalid illega	l virtual	address? a.	
	cess will terminat	. •					
b.	Process will bloo	ck					
c.	All of the above						
d.	The process will	restart after the pa	ge is broug	ht to the ma	in memo	ory and page table entry will update.	



304)	signal generate	when we try to acce	ss the illegal memor	y location using invalid pointer
a. SIGSTOP	b. SIGSEG\	/ c.	SIGTERM	d. SIGNULL
305) An array is h Merge sort?	aving 12 elements, v	vhat will be the maxi	mum number of con	nparisons that required in
a.144	b. 11	c.12	d. 13	
the exceptions into b. display an erro	a file and continue or message and halt pord containing an er	analysing transactior processing		error, it should a. write
307) inode number	represents	71 /		(
a. the directory on t	the file system uniqu	iely b. all	types of files on the	file system uniquely
c. all process running	ng on the system	d. use	of the code in thefil	e system
308) Which of the fo	ollowing is a false sta	tement about binary	tree?	
a. Every binary tree	has at least one noc	de b. Eve	ery <mark>non-em</mark> pty tree h	as exactly one root node
c. Every node has at	t most two children	d. Ev	e <mark>ry non-r</mark> oot node h	as exactly one parent
309) Drivers constitu	ute which part of the	E Linux Operating Sys	tem?	
a. Kernel	b. Shell	c. Application		
310) Which is the de	efault shell used by t	he Linux OS?		
a. KSH	b. BASH	c. SSH	d. ASH	
311) Which commar	nd will list out all file	s including hidden fil	es?	
a. ls -l	b. Is –A	c. ls -r	d. Is -a	
312) To copy a direc	ctory instead of a file	which switch is used	l in cp?	
aa	b. –v	cR	dc	
313) Which one of t	he following uses a r	relative path?		
a. /root	b. /var/lib/ c. /		d. /scripts	
•		ectory he is currently	. <u> </u>	
a. cwd	b. ı	mv c.	pwd	
d. Is				
315) Which comma	nd is used to rename	e a file?		



a. ren	b. cp	c. mv	d. none of the above		
316) Which comma		•	•		
a. del	b. rm –R	c. rm	d. rmdir		
317) Which of the f	ollowing comr	nands is correct	?		
a. more emp.db o	cut -f 3	b. c	cut -f 3 -d " "		
c. more emp.db > c	cut -f 3 -d " "	d. mo	ore emp.db > cut -f 3		
318) The touch com	nmand update	s what?			
a. modification tim	ne and access t	t ime b.	. access time only		
c. modification time	e only	d. no	ne of the above		
319) Which comma	nd creates an	archive and com	•		
a. tar	b. zip	c. gzip	d. none of the a	bove	
320) The command	to change the	ownership is	t IVI artti		
a. chgrp	b. chmod	c. takeown	d. none of the abov	ve /	
321) chgrp does wh	nat?				
a. Changes the owr		a new grou <mark>p</mark>	c. Changes the	access rights d. non	e of the above
322) chmod does w	hat?				
a. updates the mod		b	o. changes the access righ	its	
c. updates the acce			. Both a & c		
323) How can read c. 5	, write, execut d. :		sion be represented in nu	imeric form? a. 0	b. 7
324) Which comma	and is used onl	v to save a file ir	n vi editor?		
a.:wq	b. :q	c. :qa!	d. none of the abo	ve(:w)	
325) Which comma	and is used to (copy a block of t	ext in vi editor?		
a. y b.		· ·	one of the above(yy)		
,					
326) Which comma	nd is used to s	tart marking line	es in vi editor?		
a. ALT + v	b. CTRL + v	c. SHI	IFT + v d. none	of the above	
327) Which comma	nd is used to s	tart marking a re	egion in vi editor?		
a. ALT + v	b. CTRL + v	c. SHI	IFT + v d. none	of the above	



328) Which sho	ould be the		•	•		6.1
a. !#/bin/bash		b. /bin/l		c. #!/bin/bash	d. n	one of the above
329) Which of t		•	•			
a. &0	b. \$0	c. @0 d.	none of the a	above		
330) Which of t	the followir	ng arithmetic	c expression is	correct?		
a. \$i=((i+1))	b. i	=((i+1)) c	:. i=\$((i+1))	d. none of the	above	
331) Which is a	valid state	ment in a sh	ell script?			
a. echo "My na			•	=13 d. none	of the abo	ove
•	•		·			
332) Which is N	JOT a valid	statement ir	n a shell scrint	?		
a. echo	b. 122=I	c. i=1		d. none of the abo	N/A	
a. ccno	D. 122-1	C. 1–1	L -7 /	u. Horic of the abo	JVC	
222\ \A/b;ab aa		مد اممین مما می		alaw af tha taut	ممسمم طمئد	M
	ommand ca	1 11		olor of the text wh	A	
a. echo	A	b. color	ram	c. tput	d. nor	ne of the above
	V					
334) The if con	struct alwa	ys ends with	1?			
a. end if		b. stop	c. if	d. none of the	above(fi)	
335) The else p	art of the i	f construct e	nds with?			
a. end else		b. stop	c. esle	d. none of the	above(fi)	
		N.				
336) While test	ing an inte	ger variable	what does -lt	indicate?		
a. last	b. less tha	-	c. last value		he ahove	
a. 145t	Di less till		c. last value	d. Horic of t	ine above	
227\ \Which ic a	valid varia	blo namo in	a shall serint?			
337) Which is a					میره ماه مطا	
a.123var	D. \	var*	c. \$var	d. none of	ine above	
338) Which is a						
a. more file.txt	>/dev/nul	II	b. more file.tx	t c. more file.txt ·	<> cat	d. none of the above
339) User space	e and kerne	el space are	defined by:			
a. Kernel		b. Hardv	ware-CPU	c. Both 1 &	2	d. Administrator
340) Conventio	nal RTOS u	ses				
a. only kernel s				nly user space		
c. may be user	-	kernel space		one of the above		
2	- 12 2 2 2 2 1 1 1 2		3.11			
RA1) Which CDI	I schedulin	o algorithm	is the Proomn	tive scheduling?		
•		e (FCFS)	-	Robin (RR)	c. Both	d. None of the above.
a. 11131 COIII	CINSUSE(V	c (1 Cl 3)	b. Noulla	MODITI (MM)	c. botti	u. None of the above.

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342)	which CPU scheduling	g algorithm may suffer from the Star	vation Problem	
a.	Round Robin (RR)	b. First Come First serve (FCFS)	c. Priority scheduling	d. None of the

above.

343) A	Multithreaded	programming	Benefits
--------	---------------	-------------	----------

a. Increase Responsiveness to user. b. Utilization of multiprocessor architecture.

42) Which CDU askeduling also ither was a suffer from the Chamption Duckland

c. Resource Sharing d. All of above

344) Circular waiting is

a. not a necessary condition for deadlock

b. a necessary condition for deadlock, but not a sufficient condition.

c. a sufficient condition

d. None of the above.

345) In an operating system using paging, if each 32-bit address is viewed as a 20-bit page identifier plus a 12bit offset, what is the size of each page?

a. 2^12 =4096 bytes b. 2^20 bytes c. 20 byte d. None of the above.

346) Advantage of memory management using virtual memory

- a. More Process can be loaded in the momery, to try to keep the processor busy
- b. A process whose image larger than memory can be executed
- c. Both 1 & 2
- d. None of the above.

347) Following is not a Disk scheduling algorithm:

a. First Come First serve (FCFS) b. Round Robin c. SCAN d. LOOK

348) Which of the following condition is necessary for the deadlock

a. Mutual exclusion and Hold-and-wait b. No preemption and circular wait

c. Both 1 & 2 d. None of the above.

349) LOOK disk scheduling algorithm:

- a. Select the request with minimum seek time from current head position.
- b. Moves the head from one end of the disk to other end, servicing request along the way.
- c. Moves the head only as far as the final request in each direction, then it reverse direction immediately, without first going all the way to the end of the disk.
- d. None of the above.

350) Thrashing is:

a. CPU scheduling algorithm b. disk-scheduling algorithm c. High Paging Activity d. None of the above.

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351) Spooling

 In spooling, a process writes its output to a temporary file rather than to an output device, such as a

printer

- In spooling, a process writes its output to an output device, such as a printer c.
 Both 1 & 2
- d. None of the above.
- 352) A "critical section" of code is
- a. A section that is executed very often, and therefore should be written to run very efficiently.
- b. A section of the program that must not be interrupted by the scheduler.
- c. A section of the program that is susceptible to race conditions, unless mutual exclusion is enforced. d. A section of the code executed in kernel mode
- 353) The OS uses a round robin scheduler. The FIFO queue of ready processes holds three processes A, B, C in that order. The time quantum is 18 msec. A context switch takes 2 msec. After running for 13 msec, B will block to do a disk read, which will take 30 msec to complete. Trace what will happen over the first 100 msec.

What is the CPU efficiency over the first 100 msec?

a.80% b.70% c.90% d.100%

- 354) "Time Quantum" in Round Robin Scheduling algorithm:
- Time between the submission and completion of a process.
- b. Time for the disk arm to move to the desired cylinder
- c. Maximum time a process may run before being preempted
- d. Time required to switch from one running process to another
- 355) An OS uses a paging system with 1Kbyte pages. A given process uses a virtual address space Of 128K and is assigned 16K of physical memory. How many entries does its page table contain?

a. 1024 b. 128 c. 512 d. 64

356) What is the "turnaround time" in scheduling algorithms? a.

Time for a user to get a reaction to his/her input.

- b. Time between the submission and completion of a process
- c. Time required to switch from one running process to another
- d. Delay between the time that a process blocks and the time that it unblocks
- 357) "chmod" command in Linux
- a. Change the operating system mode
- c. Change Access mode of file

b. Change the command mode

d. None of the above.

358) "grep" Command is used



a. b.	make each column in combine a file and wr		•			
c.	search a file for lines	containing a gi	iven format.	d. None of t	the above.	
359) a.	A program which is lo	aded into mem b. Job.		g is commonly refer c. Process.	red to as a:	d. Program
a.	Bankers Algorithm is u Deadlock Characteriza eadlock avoidance		b. Deadlock Han d. Deadlock Do			
-	To enable a process to TLB. b. Frag	_		nory allocated, we us nys. d. None of the		
-	A is a memory Spool	area that stor b. Buffer	es data while the c. Cache	/	All D	es:
363)	The command used to					
a	Is –I	b. ls –a		. Is –t	d. ls –r	
	The file stores					
a.	/lib	b. /mnt	C	. /etc/fstab	d. /usr	/local
-	In Linux commar current working direct		/ /	working directory &	commar	nd is Used to print
	cd, pwd	b. pwd		c. cd, cp	d. cp, d	cd
366)	Is a special use	er who has ulti	mate privilege on	Linux system:		
a. abo	Any user		iper user	c. Administr	ator	d. None of the
367) a.	In Linux, we can displadisplay	ay the content b. show	-	ng the command: c. cat	d. All c	of the above
-	Which command is us	_	= -	? d. None of the	ahovo	
a.	change group	b. chgrp	c. changep	u. None of the	anove	
369) a.	If more than one proc Lowest Priority.				the d. No Priority.	
370)	In Batch processing sy	stem the mem	ory allocator are	also called as		
-	I ong — term schedule		•	Short - term sched	– uler	



c. Medium – term scheduler				d. Batch – term scheduler.			
-	Wait until the desire	ed sector of a disk	comes under	the R/W head as the	e disk rotates. ⁻	This time	
a.	seek time	b. latency time		c. transmission time	e d. Re	ead/Write time	
372)	All other processes	wanting to enter t	heir respectiv	ve critical regions are	kept waiting i	n a queue called as	
a.	Ready queue.	b. Waiting queu	ie	c. Semaphore queu	ie.	d. Critical queue.	
373)	There would be son	ne time lost in turn	ing attention	from process 1 to p	rocess 2 is calle	ed as	
a. Pr	ocess transferring.	b. Process switc	ching	c. Process turning.	d. Co	ontext switching	
		ting from 0,you ski	p two sector	in which you and then number th	e sector as 1ar		
375)	An alternative to th	e scheme of DMA	is calle <mark>d</mark>				
a.	Programmed I/O.	b. Mapped I/O.	c. I/O	Mapped I/o	d. I/O Contr	oller	
prod Page c. Pa	cess to which they are Map Table (PMT). age Table Entry (PTE) processes to text switching).	re allocated. This is end to be faster, sin	b. Page France. Disk Bloc	s in terms of whethe intaining another da me Data Table (PFDT k Descriptor (DBD). not have to go to the c. Kernel pro	ta structure cal). kernel for eve	ry Rescheduling	
d.	neavyweight proces	sses. D. Lightweig	nt processes.	c. Kernei pr	ocesses. u. sys	tem processes	
378)	To know the name Shell). a. \$0			lowing command (Bo c. \$2 d.	ourne \$9		
379)	To hold the exit sta a. \$\$		c. \$/	command is u d.\$	sed.		
380)	To know the Proces		process c. \$/	command is used d. \$	d. a.		
381) a.	To know the path o	f the Shell co b. CDPATH	mmand is us c. SHE				

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382)	To print a file i	in Linux which comm	and is used			
a.	print	b. ls –p	c. Ip	or	d. None	
383)	To create an a	dditional link to an e	xisting file, wh	nich comma	and is used	
a.	In	b. sbln		с. ср	d. none	
2041	The Linux com	mand "cp ch? book"				
•		s starting with ch to the	ha diractory b	a a l		
a. h	= '	s with three-characte			h ch to the direc	tory book
b. c.		ether a file starting w				tory book
d.	None of the a	_	THE CHICKISTS II	ir the direct	ory book	
385)	. Command us	ed in shell to read a l	ine of data fro	om termina	als	
a.	rline	b. lin	e		c. Iread	d. None of these
		CI .		7. /	, 0	A .
386)	In vi, to change	e a word in command	d mode, one h	nas to type	intri	
a.	CW	b. wc		c. lw	d. none	
387)	What would b	e the output of the fo	ollowing shell	script?		
foo=	10 x=foo eval y	/='\$'\$x echo \$y				
a.	foo	b. 10	c. x		d. \$x	
try a	again" read done exit 0	ng shell script echo "E tches with 'secrete' i				!= "secrete"]; do echo "Sorry,
b.	The shell scrip	t gives error in while	statement			
c.	Irrespective of	f the users input, it al	ways prints "	Sorry, try a	gain"	
d.	If user enters	secrete then shell scr	ipt exits othe	rwise it wil	I read pas once a	again
389) don	•	the following shell sc	ript would be	: for var in	DAC August 200	5 do echo \$var echo " C-DAC "
a. D	AC August 2005	5	b.	C-DAC C-D	AC C-DAC	
c. D	AC C-DAC Augu	st C-DAC 2005 C-DA	d.	DAC C-DAG	C	
390)	. fun(){ echo "e	enter a number" reac	d num num=\$	((\$num+1))	echo "\$num"	
} fun	exit 0					
The a	above shell scri	pt				
a. b.	takes a number	er from user, increme to terminal	ents it, and pr	ints to the	terminal.	
	•	the line fun (function	call) hecause	it should l	he written as fur	

exits without doing anything

d.



391)	The computer itself	uses	_language.				
a. H	igh level	b. Natural		c. Assembly	d.	Machine	
392)	Which of the followi	ng is not an oper	ating syste	m?			
a. Sı	uSE	b. Unix		c. OSD	d	. DOS	
-	Object modules gene er objectmodules by t	=	=	ontain unresolve	d referei	nces. These are reso	lved using
a. li	nker	b. loader	c. de	bugger	d. cor	mpiler	
	Which of the followi	ng is not a neces	sary condit	ionfor a deadlocl b. Circular			
c. N	o preemption of reso An operating system	urces	d. None	of the above	tri		
395) a. Ir	An operating system ntegrated software	b. CD-ROM so	 ftware	c. System soft	ware	d. Application soft	ware
	Match the operating umn a. Thread	system abstract	ions in the	left column to th	e hardw	are components in t	he right
1.	Interrupt Virtual Add	dress Space					
2.	Memory File System						
3.	CPU Signal						
4.	Disk						
a. a	-2, b-4, c-3, d-1	b. a-3, b-2,	c-4, d-1	c. a-1, b-2, c-3,	d-4	d. a-4, b-2, c-2, d-1	1
397)	Which of the followi	ng file streams is	not opene	d automatically i	n a UNIX	program?	
a. S	tandard terminal	b. Standard	input	c. Standard ou	ıtput	d. Standard error	
398)	Transfer of informat	ion to and from	main mem	orytakes place in	terms of	· •	
	a. Bytes	b. Words	c. Bits	d. I	Nibbles		
399)	Virtual Memory						
a.	is an extremely larg	e main memory					
b.	is an extremely larg	ge secondary me	mory				
c.	is a type of memory	used in superco	mputers				
d.	allows execution of	f processes that	may notbe	completely in m	emory		
400)	Page fault occurs wh	en	<u>.</u>				
	he page is corrupted l			b. The page	e is in ma	in memory	



c. The page is not in main memory			d. One tries to divide a number by 0				
401)	An operating syste	m with multiprograr	mming capab	lity is one that			
a.	allows several user	rs to use the same p	rogram at on	ce by giving each a sli	ce of time		
b. req	loads several inde uired	pendent processes	intomemory	and switches the CPI	J from one jobto another as		
C.	runs programs ove	er more than one pro	ocessor				
d.	None of the above						
402)	Where does swap	space reside?					
a. D	isk	b. RAM	c. ROM	d. On-chip c	ache		
403)	A 1000 MB hard di	sk has 512-byte sec	tors. Each tra	ck on the disk has 100	00 sectors. The number of tracks		
a.10	24	b.2048	c.512	d.1000			
404)	Which of the follow	wing is not an advan	tage provided	d by shared libraries?			
a.	They save disk spa	ce					
b.	They save space in	main memory					
c.	Multiple versions of	of the same library c	an <mark>be loade</mark> d	into m <mark>ain me</mark> mory			
d.	None of the above						
405)	Spooling is						
a.	The rewinding of t	apes after proces <mark>sin</mark>	g				
b. cop	The temporary sto e with it	orage and manag <mark>em</mark>	ent of outpu	t to printers and other	er output devices until they can		
c.	The recording of a	ll user activities in a	log file				
d.	None of the above						
-				errupts. Interrupts ar	e a.		
		e to operating syste					
b.	_	I from other comput					
C.	None of the abo		questing atte	ntion from the opera	iting system d.		
407)	Which of the follow	=		al section problem?			
a. N	lonitor	b. Semaphore	c. Crit	ical Region construct	d. Segmentation		
408)	. System calls are in	nvoked by using	·				
a. So	oftware interrupt	b. I	Polling	c. Indirect jump	d. A privileged instruction		



409)	Paging is the transfe	er of pages betwee	en main memory	and the	·
a. Ke	ernel	b. Computer sys	tem c. Au	xiliary store	d. Output device
-	Which of the follow ained in a file?	ing commands is ι	used to count the	total number of	lines, words and characters
a. co	unt p	b. wc	c. wcount	d.countw	
411)	The size of the virtu	al memory depen	ds on the size of t	he	
a. Ad	ddress bus	b. Data b	us c. Me	emory bus	d. None of the above
a.	What do you mean When a device has cessor then stops w	data to transfer it	makesan interru	-	t needs your attention, the
	•	essor, if you type	to muchthe comp	•	ose down theillegal application atterrupt to let youthere is no more
413)	Multiprogramming	systems			
a.	Are easier to develo	op than singleprog	ram <mark>ming sys</mark> tems		
b.	Execute each job fa	ster			
c.	Execute more jobs	in the same time	period		
d.	Are used only one l	arge mainframe Co	omputers		
414)	The components th	at take data ar <mark>e lo</mark>	cated in the		
a. In	put devices	b. output device	c. systen	<mark>n un</mark> it d. stora	ge component
415)	What is one of the a	advantages of Pagi	ng?		
	does not suffer fron does not suffer fron	=		b. It does n d. All of the	ot suffer from spooling e above
416)	•	computer is proce formation	•	order to provide o. Output	useful c.
Kern	el	d. Communic	ation		
a. Fix	Which of the folloged partition agle-user contiguou			es does not allow b. Dynami le dynamic partit	·
J. 511	-o-o acci contiguou	2 33	a. nelocatat	a ; a i i i o pai tii	
•	. Which of the followiply the page frame	-	•	g the address of	the page frame? a.

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Divide the page frame size by the page frame number

Add the page frame number and the page frame size

b.

c.

c.

1 and 2



d. M	ultiply the page frame number by the Displacement
a. Pagi resoluti which c	hich of the following concept is best at preventing page faults? 3 ng b. Hit ratios c. The working set d. Address location ion 420) The total effect of all CPU cycles, from both I/O-bound and CPU-bound jobs, approximates of the following distribution curves? ssian distribution b. Poisson distribution c. Lorentzian Distribution d. Random Distribution
•	hich of the following storage allocation scheme results in the problem of fragmentation? iguous storage b. Non-contiguous storage c. Indexed storage d. Direct storage
•	hich of the following commands in UNIX gives the user the capability of executing one program from er program? b. fork c. exexv d. nohup
423) W a. Dead	hat does a cycle in a wait-for graph indicat <mark>e? Ilock b. Preemptive c. Non-Preemptive d. None</mark> of the above
a.	that kind of CPU burst an I/O-bound program would typically have? Long b. Short c. Average d. All of the pove
425) UI a. LRU	NIX uses the page replace <mark>ment alg</mark> orithm. b. MRU c. FCFS d. FIFO
	ne command will display the absolute pathname for the directory that you are working in. dir b.pwd c.ls d. whereami
•	Which command would you use to create a sub-directory in your home directory? a. mkdir b. dir c. cp d. rm
428) W a.ls	hich command can be used to display the contents of a file on the screen? b.cat c. dog d. grep
•	hat is the Process Input Queue? collection of processes
b. A	collection of processes on the disk that have already executed collection of processes on the disk that are waiting to be brought into memory for execution d. Both



430)	What	is Swapping?
		_

- The process of moving a process within memory to and from the backing store a.
- The process of moving a process within memory to backing store b.
- The process of moving a process to memory c.
- All of the above d.

431)	Using the	SJF algorithm,	which	process is	allocated	the CPU first?3

- a. The process that requests the CPU first
- b. The process that requests the CPU last
- c. The process with the smallest CPU execution time
- d. None of the above
- 432) Which of the following is not a scheduling algorithm?
- a. First-Come First-Serve
- **b. Round Bear** c. Shortest Job First d. None of the above
- 433) Which process is allocated the CPU first in FCFS algorithm?
- a. The process that requests the CPU first
- b. The process that requests the CPU last
- c. Processes are allocated the CPU randomly
- d. None of the above
- 434) What will be the order when information is processed with direct access?
- a. Any order
- b. Sequential order
- c. Non-sequential order
- d. None of the above
- 435) What will be the order when information is processed with sequential access?
- a. Any order
- **b. Sequential order** c. Non-sequential order
- d. None of the above
- 436) A memory management technique used to improve computer performance is Selecting memory chips based on their cost
- Storing as much data as possible on disk
- Using the cache to store data that will most likely be needed soon c.
- Preventing data from being moved from the cache to primary memory d.
- 437) What do you mean by defragmentation?
- keyboard that allows for a more natural positioning of your arms and hands.
- b. The time it takes to read/write head to moveto a specific data track; one of the delaysassociated with reading or writingdata on acomputer disk drive.
- Pointing device you can use instead of a mouse. These devices sense the position of your finger and then c. move the pointer accordingly.
- A utility that reduces the amount of fragmentation by physically organizing the contents of the disk to d. store the pieces of each file contiguously.
- 438) . Which of the following memory management schemes optimizes fragmentation? a. Single-user contiguous scheme
- Fixed partition



c. d.	Dynamic partition Relocatable dynamic partitions
441)	The is used to store the highest location in memory accessibleby each program.
442)	is the process of collecting fragments of available memory space into contiguous blocks by moving programs and data in a computer's memory or disk.
443)	Which of the following are the disadvantages of a fixed partition scheme (choose all that apply)? a. Requires that the entire program be loaded into memory
b.	Requires that the entire program be stored contiguously
c.	Requires that the entire program remain in memory until the job is completed
d.	Does not allow multiprogramming
444)	The phenomenon of partial usage of fixed partitions and the coinciding creation of unused spaces within the partition is called
445)	Computers use the language to process data.
a. ´	Processing b. kilobyte c. Binary d. Representational
-	Round-robin scheduling is
a.	Non- preemptive b. It depends c. Preemptive d. None of the above
447)	Binary Semaphores are used for .
	resource allocation b. critical sections c. mutual exclusion d. synchronization
-	What dispatcher does?
	Select the process from the ready queue b. Run the process from the ready queue
c. Se	elect and run the process from the ready queue d. None of the above
449)	Which one is the correct statement regarding thread? a.
	cal extension of the process.
b.	Very similar to the process.
c.	Threads have there own address space they do not use the process address space.
d.	Threads share the same address space that is used by the process
450)	During process execution, which state transaction, is not possible?
- 30, а.	Ready state to running state b. Running state to block state
	ock state to terminate state d. Block state to ready state
451)	signal generate when we try to access the illegal memory location using invalid pointer.



a.	SIGSTOP	b. SIGSEGV	c. SIGTERM	d. SIGNULL	
452)	Which Inter Pro	ocess Communication b. FIFO	n mechanism is fastest to c. Shared Mei	o exchange the data between mory d. Message	=
453)	Bootstrap load	er is			
a.	A program, wh	ich resides in the use	r space. k	o. A program, which resides	in ROM.
c. A	program, which	resides in the RAM.	d. A progra	am, which is a module of th	ne kernel space.
454)	The page table	entry contains	·		
a.		n regarding given pag			
b.	the informatio	n regarding given seg	ment is valid or not.		
C.			e table is valid or not.		
d.	All of the above	е		T.	
455\	DOCIN allegand	Clarit	Marian Maria	no troi A	
•	•		on in Linux schedules		-6+
a.		the help of the kerne		s with the help of light weig eads with the help of heav	
c. us	er tilleaus with	the help of the kerne	u. user till	eaus with the help of heav	y weight process
456)	Segmentation I	eads to			
a.	External Fragm		ernal Fragmentation c. F	Both 1 and 2 d. All of the a	hove
.	zacerriar r ragin	ST III C	That i ragine i racion or a		
457)	In static priority	y based scheduling			
a.	· ·		the design and not chan	ged during execution.	
b.	Priorities are d	ecided at the time of	design and may be chan	ged during execution by Al	Pls.
c.	Priorities are d	ecided by the sche <mark>du</mark>	ler during execution.		
d.	All of the abov	e			
458)	Paging leads to)			
459)	a. Internal Frag above	gmentation	b. External Fragment	ation c. Both 1 and 2	d. All of the
460)	Conventional F	RTOS uses	_		
a.	only kernel spa	ice.	_	b. only user space.	
c. m	ay be user spac	e and kernel space.	d. None of the	e above	
461)	With any Disk S	Scheduling Algorithms	s, Performance depends	on	
a. Nu	mber of reques	sts	b. Number and types	of requests	
c. Tv	pes of requests		d. None of the above		



462)	How can we get the	information about	the CPU o	nthe Linux system?		
a. ca	nt /usr/cpuinfo	b. cat /proc/cլ	puinfo	c. cat /root/proc/cpuir	nfo d. c	at /root/usr/cpuinfo
-	Which is the Linux k	=		wing and what is locati nage and location is /u		file system? a.
c. vn	nliunz and location is	/boot	d. kimage	and location is /usr		
-	inode number repre	<u> </u>	h :	all types of files on the	file syste	m uniquely
	I process running on			of the inode in the file	=	iii uiiiqueiy.
465)	Which one is defaul	t shell for the Linux	?			
a.	csh	b. tcsh		c. ksh		d . bash
466)	Which statement is	true?		7 /	· A	
a.	Process is a passive	entity 7/17/7/	1111	Mantri		
b.	We cannot divide p	rocess in further thr	eads.	LVACUICUIC		
c.	Process is an active	instance of the pro	gram.			
d.	Threads do not use	the memory spacep	rovided b	y the process.		
467)	Which module gives	control of the CPU	to the pro	cess se <mark>lected by</mark> the sh	nort-term	scheduler?
a.	none of the mention	ned b.	interrupt	c. dispatcher	r	d. scheduler
468)	The interval from th	e time of submi <mark>ssio</mark>	n of a pro	ces <mark>s to the t</mark> ime of com	pletion is	termed as
a.	turnaround time	b. waiting	time	c. response t	ime	d. throughput
	In priority schedulin	g algorithm a.				
	e of the mentioned		اماناما			
	equal priority proce			.••		
C.		the process with his				
d.		the process with lov	vest priori	ty		
470)	Time quantum is de					
a.	priority scheduling	_	b.	round robin schedulin		
b.	multilevel queue sc	heduling algorithm		d. shortest job sch	neduling a	lgorithm
471)	Which one of the fo	llowing can not be s	cheduled	by the kernel?		
a.	none of the mention	ned b. process	5	c. kernel level threa	d	d. user level thread
472)	The two steps of a p	process execution ar	e : (choos	e two)		
а	OS Burst	h Memor	v Rurst	c I/O Burst		d CPU Burst

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473) Turnaround time is:

- a. the total time spent in the ready queue
- b. the total time spent in the running queue
- c. the total waiting time for a process to finish execution
- d. the total time from the completion till the submission of a process

474) Complex scheduling algorithms:

- a. are very appropriate for very large computers
- b. use minimal resources
- c. use many resources
- d. All of these

475) The FIFO algorithm:

- a. first executes the job that needs minimal processor
- b. first executes the job that has maximum processor needs
- c. first executes the job that came in first in the queue
- d. first executes the job that came in last in the queue

476) The offset 'd' of the logical address must be:

- a. **between 0 and segment limit** b. greater than segment limit
- c. greater than the segment number d. between 0 and the segment number
- 477) The address of a page table in memory is pointed by
- a. page register b. program counter c. page table base register d. stack pointer
- 478) The page table contains
- a. page size b. none of the mentioned
- c. page offset d. base address of each page in physical memory
- 479) In contiguous memory allocation: a.

None of these

- b. each process is contained in a single contiguous section of memory
- c. the memory space is contiguous
- d. all processes are contained in a single contiguous section of memory
- 480) The operating system and the other processes are protected from being modified by an already running process because :
- a. they are in different logical addresses
- b. they are in different memory spaces
- c. they have a protection algorithm
- d. every address generated by the CPU is being checked against the relocation and limit registers



	ple processes at o			u sizeu partitions, eaci	i partition may contain	
	actly one process			east one process		
482)	In internal fragme	ntation, men	nory is inte	rnal to a partition and	:	
a.	is being used	b. None	of these	c. is not being used	d. is always used	
	Another solution these	to the proble	m of exterr	nal fragmentation prob	plem is to: a.	
	permit larger pro					
	permit smaller pr			•	0110	
d.	permit the logica	i address spa	ce or a pro	cess to be noncontigu	ous	
a.	is ge first fit, best fit, we one of these	00. T AZ	b. w	and vorst fit, best fit, first f t fit, first fit, worst fit	tri	
485)	External fragmen	tation exists v	vhen :			
				the total memory is fr		
b.	-	-	o satisfy a r	request but it is not co	ontiguous entiguous	
486)	c. None of e total memory is Physical memory pages b.	insufficient t	o fixe <mark>d-size</mark>	d blocks called	 tore	
487)	Every address ger	nerated by the	e CPU is div	rided into two parts : (choose two)	
		page offset		c. page number		
488)	The table o	ontains the b	ase addres	s of each page in phys	ical memory.	
-	· · · · · · · · · · · · · · · · · · ·	process		c. frame	d. memory	
	With paging there			ntation. c. either type of	d external	
u.	None or these	D. IIICCII		c. citiler type of	d. CACCITICI	
490)	The page table re	gisters should	d be built w	ith		
	very low speed lo	_				
b.	very high speed I	ogic	d. a large	memory space		
491)	What is operating	svstem?				

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system service provider to the application programs link to interface the hardware and application programs b. all of the mentioned c. collection of programs that manages hardware resources d. 492) Which one of the following is not true? kernel is the program that constitutes the central core of the operating system b. kernel is the first part of operating system to load into memory during booting kernel remains in the memory during the entire computer session c. d. kernel is made of various modules which can not be loaded in running operating system 493) Which one of the following error will be handle by the operating system? a. lack of paper in printer b. power failure c. connection failure in the network d. all of the mentioned 494) The main function of the command interpreter is a. to handle the files in operating system none of the mentioned to get and execute the next user-specified command c. d. to provide the interface between the API and application program 495) By operating system, the resource management can be done via space division multiplexing b. none of the mentioned a. b. both (a) and (b) d. time division multiplexing 496) If a process fails, most operating system write the error information to a new file b. log file c. none of the mentioned d. another running process 497) Which facility dynamically adds probes to a running system, both in user processes and in the kernel? DAdd b. DLocate c. DTrace d. DMap a. 498) Which one of the following is not a real time operating system? b. VxWorks d. Windows CE a. **RTLinux** c. Palm OS 499) The OS X has a. hybrid kernel b. monolithic kernel c. monolithic kernel with modules d. microkernel

b. uniprocessing

500) The systems which allows only one process execution at a time, are called

a. uniprogramming systems

systems

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c. unitasking systems	d. none of the mentioned	
 501) In operating system, each process has address space and global variables b. open files c. pending alarms, signals and signal had d. all of the mentioned 		
502) A process can be terminated due to		
a. killed by another process	b. all of the mentioned	c. fatal error d. normal exit
 503) What is the ready state of a process? a. when process is unable to run until so b. when process is scheduled to run aft c. when process is using the CPU d. none of the mentioned 	ome task has been completed ter some execution	i ∆
504) The address of the next instruction to		
a. process stack b. prog	ram counter c. pipe	d. CPU registers
505) The number of processes completed a. Throughput b. Effici 506) The state of a process is defined by: the activity to next be executed by the proc c. the activity just executed by the proc d. the final activity of the process	ency c. Output a. the current activity of the pro- cess	d. Capacity cess b.
507) Which of the following is not the state	e of a process ?	
a. New b. Waiting	c. Ready d. Terminated	e. Old
508) The entry of all the PCBs of the currer a. Process Register b. Process U	•	d. Process Table
 509) In a programmed input/output(PIO): a. the CPU writes one data byte to the data available b. the CPU receives an interrupt when to the CPU runs a user written code and 	data register and sets a bit in cont he device is ready for the next by	
d. the CPU uses polling to watch the co	<u> </u>	ee if device is ready
510) Fragmentation is		

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- a. fragments of memory words unused in a page
- **b.** fragments of memory words used in a page
- **c.** dividing the main memory into equal-sized fragments
- **d.** dividing the secondary memory into equal sized fragments
- 511) 516. Critical region is
- a. the portion of the main memory which can be accessed only by one process at a time
- b. a part of the operating system which is not allowed to be accessed by any process
- c. a set of instructions that access common shared resource which exclude one another in time d. none of the above
- 512) In a time-sharing operating system, when the time slot given to a process is completed, the process goes from the RUNNING state to the
- a. READY state
- b. BLOCKED state
- c. TERMINATED state
- d. SUSPENDED state
- 513) Pre-emptive scheduling, is the strategy of temporarily suspending a running process
- a. when it requests (I/O)

b. to allow starving

processes to run

c. before the CPU time slice expires

- d. none of the above
- 514) Some computer systems support dual mode operation—the user mode and the supervisor or monitor mode. These refer to the modes
- a. of memory access
- b. by which user programs handle their data
- c. by which the operating system executes user programs
- d. in which the processor and the associated hardware operate
- 515) In Round Robin CPU scheduling, as the time quantum is increased, the average turn around
- a. remains constant
- **b. varies irregularly** c. increases
- d. decrease
- 516) .Suppose that a process is in 'BLOCKED' state waiting for some I/O service. When the service is completed, it goes to the
- a. RUNNING state
- **b.READY** state
- c. SUSPENDED state
- d. TERMINATED state
- 517) To obtain better memory utilization, dynamic loading is used. With dynamic loading a routine is not loaded until it is called for. For implementing dynamic loading,
- a. special support from operating system is essential
- b. special support from hardware is essential
- c. special support from both hardware and operating system are essential
- d. user programs can implement dynamic loading without any special support from the operating system or the hardware.

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518) Semaphores are used to solve the problem of

a. race condition b. mutual exclusion c. process synchronization d. Both (B) and (C)

519) Dijkstra's banking algorithm in an operating system solves the problem of

a. mutual exclusion b. context switching c. deadlock avoidance d. deadlock recovery

520) Virtual memory is

a. an extremely large main memory
b. an extremely large secondary memory
c. a type of memory used in super computers
d. an illusion of an extremely large memory

521) 526. Overlay is

a. a specific memory location

b. a part of an operating system

c. overloading the system with many user files

d. a single contiguous memory that was used in the olden days for running large programs by swapping.

522) The only state transition that is initiated by the user process itself is

a. block b. wakeup c. dispatch d. none of the above

523) Kernel is

a. the software which monitors the operating system

b. the set of primitive functions upon which the rest of operating system functions are built up

c. considered as the critical part of the operating system

d. none of the above

524) Sector interleaving in disks is done by

a. the operating system b. the disk manufacturer

c. the disk controller cord d. none of the above

525) Dirty bit is used to show the a.

wrong page in the memory

b. page with corrupted data

c. page that is less frequently accessed

d. page that is modified after being loaded into cache memory

526) The first-fit, and the worst-fit algorithm can be used for

a. linked allocation of memory b. indexed allocation of memory

c. contiguous allocation of memory d. all of the above

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527) In a paged memory, the page hit ratio is 0.35. The time required to access a page in secondary memory is equal to 100 ns. The time required to access a page in primary memory is 10 ns. The average time required to access a page is

- a. 3.0 ns
- b. 68.0 ns
- c. 68.5 ns
- d. 78.5 ns

528) In a multi-user operating system, 20 requests are made to use a particular resource per hour on an average. The probability that no requests are made in 45 minutes is

- a. e-15
- b. e-5
- c. 1 e-5
- d. 1 e-10

529) Disk scheduling involves deciding

- a. which disk should be accessed next
- b. the order in which disk access requests must be serviced
- c. the physical location where files should be accessed in the disk
- d. none of the above

530) In a multiprogramming environment

- a. more than one process resides in the memory
- **b.** the programs are developed by more than one person
- c. the processor executes more than one process at a time
- **d.** a single user can execute many programs at the same time

531) In which of the following directory systems, is it possible to have multiple complete paths for a file starting from the root directory?

- a. Single level directory
- b. Two level directory
- c. Tree structured directory
- d. Acyclic graph directory

532) Which of the following is true?

- The linkage editor links object modules during compiling or assembling.
- b. The linkage editor links object modules and resolves external references between them before loading.
- c. The linkage editor resolves external references between the object modules during execution time.
- d. The linkage editor is used to edit programs which have to be later linked together.

533) Fence register is used for

- a. file protection
- b. CPU protection
- c. memory protection
- d. all of the above

534) If the property of locality of reference is well pronounced in a program a.

the number of page faults will be more

- b. the number of page faults will be less
- c. execution will be faster
- d. Both (B) and (C)

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- 535) With a single resource, deadlock occurs
- a. if there are only two processes competing for that resource
- b. if there is a single process competing for that resource
- c. if there are more than two processes competing for that resource
- d. none of the above
- 536) Supervisor call
- a. is a call with control functions
- b. is a call made by the supervisor of the system
- c. are privileged calls that are used to perform resource management functions, which are controlled by the operating system.
- d. is a call made by someone working in root directory
- 537) Working set (t, k) at an instant of time, t, is the set of a.

k references with high frequency

- b. pages that have been referenced in the last k time units
- c. k future references that the operating system will make
- d. future references that the operating system will make in the next 'k' time units
- 538) Concurrent processes are processes that a.

overlap in time

- **b.** do not overlap in time
- **c.** are executed by a processor at the same time
- **d.** none of the above
- 539) In paged memory systems, if the page size is increased, then the internal fragmentation generally **a. becomes more** b. becomes less c. remains constant d. none of the above
- 540) Which of the following is an example of a SPOOLED device?
- a. The secondary memory device in a virtual memory system.
- b. A line printer used to print the output of a number of jobs.
- c. The terminal used to enter the input data for a program being executed. d. None of the above
- 541) The page replacement policy that sometimes leads to more page faults when the size of the memory is increased is
- **a. FIFO** b. LRU c. no such policy exists d. none of the above
- 542) An operating system contains 3 user processes each requiring 2 units of resource R. The minimum number of units of R such that no deadlock will ever occur is
- a. 3
- b. 4
- c. 5
- d. 8

V operations were completed on this semaphore. If the final value of the semaphore is 5. x will be

543) At a particular time of computation, the value of a counting semaphore is 7. Then 20 P operations and 'x'



a. 15 b. 22	c. 18	d. 14			
544) Memory proto a. single user syste c. non-multiprogra	em		itasking systen he above	n	
545) Which of the a. MS-DOS	following are single b. UNIX	e-user operating sys c. XENIX		(A) and (C)	
546) The size of the a. address bus	e virtual memory d b. data	•	of the ain memory	d. none of the above	
drives. The maxim	III. T. H.	which the system i		ng for them. Each process no be deadlock free is	าay need 3
b. Re-entrant pr c. A re-entrant p d. Both (A) a	rocedures can be ca rocedures cannot b procedure can be c nd (C) are true	alled recu <mark>rsively.</mark> e called recursively alled even before t		has not returned from its p	revious call.
b. the compiler	nds relocatable add normally binds sym	dresses to physical and abolic addresses to	physical addre	esses. ocatable addresses. d. Botl	ո (A) and (C)
550) Spatial locality a. it Will reference c. a nearby location	•	b		referenced again	
551) Page fault occ a. the page is in m c. one tries to divid	ain memory		ge is not in ma	ain memory d by application software	
that the main mer	mory can accommo	odate 3 pages and t han page 2, (Assum	he main memo		

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553) Which of the following are real-time systems? a. An on-line railway reservation system b. A process control system c. Aircraft control system d. Both (B) and (C) 554) Necessary conditions for deadlock are a. Non-preemption and circular wait Mutual exclusion and partial allocation c. Both (a) and (b) d. None of the above 555) At a particular time, the value of a counting semaphore is 10. It will become 7 after a.3 V operations b. 3 P operations c. 13 P operations and 10 V operations d. Both (B) and (C) 556) Mutual exclusion problem occurs among processes that share resources between two disjoint processes that do not interact b. among processes that do not use the same resource c. none of the above d. Which of the following is a service not supported by the operating system? 557) b. Compilation c. Accounting d. Protection a. I/O operation 558) A state is safe if the system can allocate resources to each process (up to its maximum) in some order and still avoid deadlock. Which of the following are true? Deadlocked state is unsafe. a. b. Deadlocked state is a subset of unsafe state. Unsafe state may lead to a deadlock situation. c. All are true. d. 559) In which of the following scheduling policies does context switching never take place? a. Round-robin b. Shortest job first d. Both (B) and (C) c. First-cum-first-served 560) What do the following Abbreviations stand for? HRQ= a. FAT= file allocation table. b. PCB= process control block c. LWP=light weight process d. DMA=direct memory access. 561) Which of the following is a non-preemptive O.S.?

c. Windows NT

d. None

a. UNIX

b. Windows 95



562) The following is	not a form of IPC	•		
a. Semaphore	b. Pipe	c. Shared memo	ory d. Buffering	
563) The fol. is a part	t of FAT			
a. Sector info	b. Disk type	c. Modified info	d. Date info	
564) Device files in U	INIX are			
a. Device drivers	b. Special fi	les c. Pipes	d. Unstructured file	es
565) The time of adn	nission of a job to	ready queue to comp	letion is :	
a. Turnaround time	b	. Burst time c	. Response time	
566) The fol. Signal is				
a. HREQ	b. HLDA	С.		
DRQ	Chri	iting System	Inntri	
567) The main purpo	ose(s) of an Opera	iting System	unul	
is/are:		in g system		
a. convenience for the	he user	b. efficient oper	ration of the computer sy	vstem
c. optimal use of cor	nputing resources		the above	
·	-			
568) The signal the k	eyboard sends to	the computer is a spe	cial kind of message call	ed
a. keyboard request	b. keybo	oard <mark>controlle</mark> r	<mark>c. interr</mark> upt controller d .	. interrupt request
569) The available ro	outing schemes ar	e:		
a. fixed routing	b. virtua	a <mark>l routing</mark> c. d <mark>ynan</mark>	nic routing	
570) The interval fro	m the time of sub	omission of a process t	o the time of completior	ı is
a. Turnaround t	time b	o. Waiting time	c. Response time	
571) The I/O subsyst	em consist of:			
a. A memory man	agement compor	ent including bufferin	g, caching, and spooling	
b. A general devic	e-driver interface			
b. Drivers for specific	c hardware device	es .		
a. All of the above				
572) Which of the fo	llowing CPU sche	duling algorithmswill p	prevent starvation proble	em?
a. Shortest-job-first			b.	
Priority-scheduling				
c. Priorit echanism v	/-scheduling with	aging d. No	one of the above	

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573) Which of the following statements is true for a deadlock state a.

The system cannot run any process

- b. The system can run processes barring those involved in the deadlock
- c. A running process cannot request any new resourced.
- d. All processes in the ready queue enter the wait queu
- 574) The problem of thrashing may be reduced by
- a. Using prepaging mechanism

b. Writing well structured programs

c. Both 1 and 2

d. Neither 1 nor 2

- 575) Which of the following statements is not true?
- a. A directory is a special type of file

b. A directory is used to store file attributes

c. A directory is used to store file data

d. A directory is used to store file access information

- 576) . Biometric devices are used for user authentication in
- a. Proof by knowlege method

b. Challenge response method

c. Proof by possession method

d. Proof by property method

- 577) A file system uses the contiguous space allocation mechanism for disk space allocation. For better utilization of disk space, this file system must use
- a. A garbage collection mechanism

b. A disk compaction mechanism

c. A linked-block allocation mechanism

d. An indexed-block allocation mechanism

- 578) Which of the following statements is true?
- a. A computer virus is a complete program that makes active attacks
- b. A computer virus is a program segment that makes passive attacks
- c. A logic bomb is a program segment that makes passive attacks
- d. A logic bomb is a program that makes active attacks
- 579) The purpose of virtual memory system is to a.

Allow multiprocessing

- b. Allow multiprogramming
- c. Allow batch processing
- d. Allow execution of a program that requires larger memory than the size of the physical main memory
- 580) Which of the following is NOT a part of a process control block:
- a. Values of CPU registers

b. CPU scheduling information

c. Memory limits of the process

d. List of files accessible to the process.

- 581) Suppose the architecture of a computer system is layered into the following four layers -
- a. Operating systems software

b. users' applications software

c. hardware

d. programming environment software



582)	Which of the following	g is a logical sequ	uence of the	four laye	ers from bott	om to top?	
	a. 1, 2, 3, 4	b. 1, 3, 4, 2	c. 3,	1, 4, 2	d. 3, 4, 1, 2	2	
583)	A Job Control Languag	e is used for					
a.	telling the system abo		ce requirem	ents			
b.	telling the system adm	=	=		ource require	ements.	
c.	telling the programme		-		•		none of the above
584)	Which was the first pro	ocessor to introd	duce protect	ed mode	2?		
	a) 8086	b) 80286	c) 80386	d) 80	486		
585)	The protected mode is	s necessary for –	-				
a. m	ulti-tasking system	b. multi-u	ser system	c. bot	h a and b	d. 16 bit	programming
586)	The segmented memo	ry is provided m	ainly	Mo	intri	; A	
	r higher speeds	ry is provided in	CHANGE HE HAVE A	to main	tain compat	ihility with	old processors
	r ease of application pr	ogramming	- Y		hardware	ionicy with	ola processors
			7/				
587)	Which of the following	features is NOT	found in RIS	C archite	ectures?		
a. A	limited instruction set				b. A large nu		=
c. Vir	tual memory			d. A lar	<mark>ge n</mark> umber o	f execution	modes
E00\	TI (' . CDII 'II DC						
•	The first CPU with P6 a			A 11	4.5		
a. Pe	entium b	o. Pentium Pr <mark>o</mark>	c. Pe	ntium II	a. P	entium III	
589)	The fastest storage ele	ment is –					
a. CE	D-ROM b	o. DRAM c. E	EDO-DRAM	d.	SDRAM		
590)	Which peripheral requ	ires the highest	data transfe	r rate?			
a. So	ound Card	b. Network ca	ard c. Ha	rd disk	d. Grap	hics Adapte	er
591)	A virtual memory is re	quired for -					
a.	increasing the speed						
b.	increasing the addressing modes						
C.	overcoming the size limitation of main memory						
d.	overcoming the size li	mitation of cach	e memory				
592)	When fork() is given						
a. It	creates a child process		b. Alloca	tes slot	in process ta	ble	
c Re	eturns 0 to parent & ID	to child	d All of	the abov	/ C		

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a. b. c.	A TSR is a program which will Be resident in the memory after termination of program Be called as and when the program is executed Terminate and Soon Remove the program from the memory
d.	All of the above
-	CPU performance is based on U width b. Clock speed c. Number of instructions executed per second
-	In the systems which do not have multiple CPUs, is the 'cache coherency' an issue while design? a Yes b. No
596)	80286 the addressing scheme is addressing c
a. 8 b	b. 16 bit c. 24 bit ` d. 28 bite. 32 bit
597) :	Shell executes \$0 and returns the
a. Pa	rameters entered in the command line b. P <mark>rogram name c. All</mark> of the above
598) a. /u:	Profile file is present in sr b. /usr/user1 c. /etc/admin d. None of the above
•	Peak Bandwidth of a 64-bit, 33 MHz based PCI bus would be: 3 MB/s b. 266 MB/s c. 512 MB/s d. 33 MB/s
	Main advantage of EISA bus over <mark>micro-ch</mark> annel b <mark>us was: offered more bandwidth over micro-channel b. It had software configurable devices</mark>
	offered more bandwidth over micro-channel b. It had software configurable devices was backward compatible with ISA d. It made the existing peripherals run faster.
CO1) 1	Which of the following devices is connected as 2
a. SS	Which of the following devices is asynchronous? RAM b. EPROM c. Disk controllers d. All of the above.
•	Which of the following operating systems is available for non-intel platforms? a. Windows-NT b. Solaris c. linux d. all of the above.
	Cache memory refers to
	cheap memory that can be plugged into the mother board to expand main memory fast memory present on the processor chip that is used to store recently accessed data
	a reserved portion of main memory used to save important data

a special area of memory on the chip that is used to save frequently used constants

d.



Fil	l in the blanks:
1)	Single system image is obtained in case of
2)	Turnaround Time refers to
3)	Short-term Scheduler or CPU-Scheduler scheduler selects the process that is ready to execute to CPU.
4)	Banker's algorithm is an example of _Deadlock avoidance.
5)	is an example of Distributed operating system.
6)	_Round Robin_ is an example of timesharing scheduling policy.
7)	is an example of shareable resource and is an example for non shareable resource. Is an example of shareable resource and is an example for non shareable resource. Is an example of shareable resource and is an example for non shareable resource.
8)	is to NT , where as is to DOS and is to UNIX.
9)	Give the expansion of the following with reference to the operating systems concepts: FCB is
10)	locs is
11)	Throughput in case of multiprogramming is Number of programs processed by it per unit time
12)	is process of modifying the addresses used in the address sensitive
13)	A program is a Passive entity, whereas a process is a Active entity.
14) 15)	Mutex is a _BinarySemaphore is the coincidence of high paging traffic and low CPU utilization.
16)	FCFS stands forFirst Come First Served
17)	The Scheduling policy in case of a batch processing system is
18)	·



19)	Multiprogramming degenerates tos and I/O bound jobs.	system if there is no proper mix of CPU
20)	DMA stands for _ direct memory access	
21)	Protection of memory is ensured using	and
22)	is forceful deallocation of a resour	ce.
23)	SPOOLING stands for simultaneous peripheral operations on-line	
24)	A operating system is an operat response from a computer system.	ing system which requires a timely
25)	is a program in execution.	TAT
26)	DOS is an example of user system.	
27)	Unix is an example of user system.	
28)	Unix uses scheduling policy .	
29)	and are the goals of an operating system.	
30)	is a distributed operating system.	
31)	The determines which process is to be executed next.	
32)	PSW stands for Pogram Status Word	
33)	Mutex is an acronym for Abbrevations	
34)	A tape is a Magnetic device.	
35)	Single system image is obtained in case of	
36)	Turnaround Time refers to	
37)	Short-term Scheduler or CPU-Scheduler scheduler selects the process 38) is an example of Distributed operating system.	ess that is ready to execute to CPU.



39)	Round Robin is an example of timesharing scheduling policy.
40)	is an example of shareable resource and is an example for nonshareable resource.
41)	and are the popular page replacement algorithms.
42)	Unix is a,, and operating system.
43)	Single system image is obtained in case of 44) Turn around Time refers to
46)	Short-term Scheduler or CPU-Scheduler scheduler selects the process that is ready to execute to CPU. Banker's algorithm is an example of _ Deadlock avoidance and are the popular page replacement algorithms.
48)	A file is anything held onstorage.
49)	Compaction is done when you have fragmentation.
50)	is when more time is spent in paging than in actually running programs.
51)	A thread is a Lightweight process.
52)	The process of loading the OS into main memory is done by the
	The motivations behind networks are,,
55)	SPOOLING stands for simultaneous peripheral operations on-line
56)	Thrashing is the coincidence of high paging traffic and low CPU utilization.
57)	is a path under execution.
58)	The OS maintains information about each process in a record called
59)	is a relation between number of page faults and number of page frames allocated to a process.
60)	is the implementation method in case of MS-DOS for non-contiguous allocation.
61)	is a mechanism whereby the output of one process is directed into input of another process.

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62)	The time elapsed for position of Read/Write head under the desired sector is called
63)	, are the two ways to achieve relocation and address translation.
64)	The CPU utilization is low when the system is
65)	A space allocated in units of fixed size is called
66)	A modified page is also called as page.
67)	is an example of shareable resource and is an example for nonshareable resource.
68)	is forceful deallocationof a resource.
69)	Unix is an example of user system.
70)	The determines which process is to be executed next.
-	rocess can change its state from block state to run state. Is this statement True or False? 1) erentiate between the CPU bound process and I/O bound process.
2)	Can we prevent deadlocks by denying mutual-exclusion condition? Justify your answer.
3)	What do you mean by locality of reference?
4)	What is a dirty bit? Why is it used?
5)	What is the difference between circu <mark>it switch</mark> ing and packet switching?
6)	Justify the statement :
7)	"It is possible to support multiprogramming without using timesharing. However it is impractical to support timesharing without using multiprogramming"
8)	"Swapping improves/degrades the efficiency of system utilization".
9)	Describe the cause of READYA RUNNING transition.
10)	What do you mean by "protection" incase of operating systems? How is it implemented?
11)	What is Access Control List? Where is it used?
12)	What is a deadlock? How does it occur?
13)	What do you mean by scalability?
14)	What is a capability list? Where is it used?
15)	Comment on the statement:
16)	"Interactive processes should have low/high priority"
17)	Name secondary storage devices and explain where they are typically used.
18)	Which type of scheduler controls the degree of multiprogramming?
19)	What is a race condition?
20)	Which condition(s) is/are very necessary for a deadlock. Justify your answer.
21)	What do you mean by a "kernel"?

22) What do you mean by the "context" of a process?

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- 23) Give one difference between a .COM file and .EXE file in DOS.
- 24) Name the necessary conditions for a deadlock.
- 25) What is a critical section?
- 26) What is IOCS? What are it functions?
- 27) Explain advantages of distributed operating systems:
- 28) Name different scheduling policies and explain.
- 29) Differentiate between the logical address space and physical address space.
- 30) Explain in brief what you mean by: 1.Multiprogramming 2.Multiprocessing.
- 31) Name the five typical file operations.
- 32) Draw a block diagram showing the process transitions.
- 33) Can we prevent deadlocks by denying mutual-exclusion condition? Justify your answer.
- 34) How many different types of files are possible on UNIX operating system?
- 35) Name them.
- 36) What is demand paging?
- 37) Explain Distributed processing with the help of examples.
- 38) Differentiate between contiguous and non-contiguous memory allocation.
- 39) What Is deadlock? Give an example.

Explain the following:

- 1) Semaphores
- 2) Disk caching
- 3) Working set
- 4) Locality of reference
- 5) DMA
- 6) Non-preemptive OS

Long answer Questions:

- Consider a memory with 4 page frames, assuming that pages of a process are referenced in the following order:
- 2) 4,3, 2,1,4,3,5,4,3,2,1,5,2.
- 3) Show, which would be better FIFO or LRU.
- 4) Considering the above reference string show how Belady's anomaly occurs in case of FIFO.
- 5) How is memory re-used?
- 6) With the help of an example show the mapping from virtual address space to physical address space in case of virtual memory.
- 7) List the fields of the FCB and explain their use.
- 8) What is the difference between thread, process and Task?
- 9) What is the critical section problem? How is it handled?
- 10) Which condition(s) is/are very necessary for a deadlock? Justify your answer.
- 11) Discuss the use of Active file tables.
- 12) What constitutes the environment of a process?
- 13) What do you mean by "static and dynamic binding"?



- 14) What do you mean by an Inode? Where is it used?
- 15) How can a deadlock be avoided? Explain.
- 16) Write in detail the methods of LRU implementation.
- 17) Explain State Transition Diagram.
- 18) What is Inter-process communication?
- 19) Define the terms: Thread; process; Context of a process.
- 20) Describe the PC architecture with a block diagram
- 21) Discuss the various issues involved in Process Management

