

1. DDE feature is supported		.		
a. IPC	b. Hard Real Time System	c. Microkerne	l d. None	
2. A program that acts as an	interface between process a	nd OS is called		
a. Kernel	b. System call	c. Microkerne	l d. Virtual Machir	16
3. The time sharing operatir	ng system is also called 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				
a. Distributed Dynamic Exch		b. Dynamic Distribute	_	
c. Distributed Data Exchange	e	d. Dynamic Data Exch	nange	
6. A PCB is created when a p				
a. Running	b. Ready	c. Created	d. None	
7. ISR stands for				
a. Inter Service Routine	b. Interrupt Service	Routine c. Interrupt Se	et Routin d. Internal Servic	Έ
Routing				
8. Inter process communica	_			
a. Mails	b. Messages	c. System calls	d. Traps	
	a computer serves as a softwa	re interface between th	he user and the	
a. Hardware	b. Peripheral	c. Memory	d. Screen	
10. A thread is a	_ process.			
a. Heavy Weight	b. Multiprocess	c. Inter Thread	d d. Light weight	
11. A process said to be in _	state if it was wa	niting for an event that v	will never occur.	
a. Safe	b. Unsafe	c. Deadlock	d. All	
12. The Hardware mechanis	m that enables a device to no	otify the CPU is called		
a. Polling	b. Interrupt	c. System Call	d. None of the above	
13. IPC stands for				
a. Inner Process Communic	ation	b. Inter Process Call		
c. Inter Process Communica	tion	d. Intra Process Call		
14. For non sharable resour	ces like a printer, mutual excl	usion :		
a. must exist	b. must not exist	c. may exist	d. None of these	



15 .The request and release	of resources are		
a. command line statements	b. interrupts	c. system calls	d. special programs
16. A machine that acts as a	•		
a. Virtual Machine	b. Virtual Environment	c. Both	d. None
17. Semaphores are used to a. race condition	b. process synchronization	c. mutual exclusion	d. belady problem
18. In which scheduling polic a. FCFS	ies, context switching never to b. round robin	akes place c. Shortest job first	d. Pre-empitive
10. Which technique was int	roduced because a single job	could not keen both the CDLL	and the I/O devices husv?
a. Time-sharing	b. Spooling	c. Preemptive scheduling	d. Multiprogramming
20 Which of the following m	nemory allocation scheme suff	ers from External fragmentat	ion?
a. Segmentation	b. Pure demand paging	c. Swapping	d. Paging
21. A major problem with pr	iority scheduling is		
a. Definite blocking above	b. Starvation	c. Low priority	d. None of the
22. A state is safe if			
a. It removes deadlock	b. It detects deadlock	c. It avoids deadlock	d. None
23. Banker's Algorithm is imp	olemented to		
a. Detect Deadlock	b. Prevent Deadlock	c. Avoid Deadlock	d. All
24. The disadvantage of mov	ring all process to one end of r	memory and all holes to the o	ther direction, producing one
_	b. the memory used	c. the CPU used	d. All of these
25. Semaphore is a/an	to solve the critical section	n problem.	
a. hardware for a system		-	able d. None of these
26. Virtual memory is norma	lly implemented by		
a. demand paging	b. buses	c. virtualization	d. All of these
27. When a thread needs to	wait for an event it will		
a. Block	b. Execute	c. Terminate	d. Update
28. Paging increases the	time.		
a. waiting	b. execution	c. context – switch	d.All of these
29. Smaller page tables are i	mplemented as a set of	<u> </u> .	
a. queues	b. stacks	c. counters	d. registers

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30 is generally faster to a. first fit, best fit, worst fit		 c. worst fit, best fit, first fit	d. None of these
31. The two steps of a process exec a. I/O Burst	ution are : (choose two) b. CPU Burst	c. Memory Burst	d. OS Burst
32. An I/O bound program will typic a. a few very short CPU bursts c. many very short CPU bursts	cally have :	b. many very short I/o d. a few very short I/o	
33. The operating system manages a. Memory above	b. Processor	c. Disk and I/O devices	d. All of the
34. The switching of the CPU from oa. process switch	one process or thread to anoth b. task switch	ner is called : c. context switch	d. All of these
35. Dispatch latency is: a. the speed of dispatching a process b. the time of dispatching a process c. the time to stop one process and d. None of these	from running to ready state a		
36. A problem encountered in mult a. deadlock	itasking when a process is per b. starvation	petually denied necessary reso c. inversion	ources is called d. aging
37. A CPU bound program will typic a. a few very short CPU bursts c. many very short CPU bursts	cally have :	b. many very short I/o d. a few very short I/o	
38. Multithreaded programs are : a. lesser prone to deadlocks c. not at all prone to deadlocks		b. more prone to deadlocks d. None of these	
39. To ensure that the hold and war a. whenever a resource is requested b. each process must request and b c. a process can request resources of d. All of these	d by a process, it is not holding e allocated all its resources be	g any other resources	hat :
40. The disadvantage of invoking th a. overhead of the detection algorib. excessive time consumed in the c. considerable overhead in compu	thm due to consumption of m request to be allocated memo	emory	

d. All of these

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• •	5 tape drives, with 'n' process of 'n' for which the system is	. •	
a. 2	b. 3	c. 4	d. 1
42. A system has 3 processes	s sharing 4 resources. If each b. may occur	process needs a maximum of c. has to occur	2 units then, deadlock : d. None of these
	·		
the sum of all their maximur	esources of the same type. The needs is always less than m	+n. In this setup, deadlock:	
a. can never occur	b. may occur	c. has to occur	d. None of these
a. Abort all deadlocked proc	g processes and eliminating desses esses ne until the deadlock cycle is e	b. Abort all p	
45. Those processes should l a. is more time consuming	be aborted on occurrence of a b. incurs minimum cost	a deadlock, the termination o c. safety is not hampered	f which : d. All of these
a. number of resources the	ermination include: (choose a deadlock process is holding cked process has thus far cons	b. CPU utilization at the time	ne of deadlock d. All of the above
	e from a process, the process		
a. aborted	b. rolled back	c. terminated	d. queued
48. To to a safe state a. abort the process	te, the system needs to keep b. roll back the process	more information about the s c. queue the process	
49. If the resources are alwa	ys preempted from the same	process, can occ	cur.
a. deadlock	b. system crash	c. aging	d. starvatio
50. The solution to starvatio			
	nust be included in the cost fa must be included in resource		
c. resource preemption be o		preemption	
d. All of these			
51. The strategy of making p	processes that are logically rur	nnable to be temporarily susp	ended is called :
a. Non preemptive scheduli served	ng b. Preemptiv	e scheduling c. Shortest jo	b first d. First come First
52. Scheduling is:			
a, allowing a job to use the r	rocessor	b. making proper us	e of processor

d. None of these

c. Both i and ii



53. Which one of the following is no a. program counter mentioned	t shared by threads? b. stack		c. both (i) and (ii)	d. no	ne of the
54. When the event for which a threa. thread moves to the ready queue c. thread completes	•		b. thread remains blocked d. a new thread is provide	d	
55. The register context and stacks of a. terminates	of a thread are dealloca b. blocks	ated wh		oawns	
56. Thread synchronization is requir a. all threads of a process share the variables			b. all threads of a process	share the	e same global
c. all threads of a process can share	the same files	d. all o	f the mentioned		
57. The kernel keeps track of the sta a. Process control block above	ate of each task by usin b. User control block	g a data	a structure called c. Memory control block	d. No	one of the
58. In the multi-programming environal a. Greater than 100	onment, the main mem b. Only one	nory cor	nsisting of numb c. Greater than 50		ocess. ore than one
59. Which of the following statemer a. Multiprogramming implies multit c. Multitasking does not imply mult	tasking	b. Mul	ti-user does not imply mult d. Multithreading implies i	=	_
60. Saving the state of the old proce a. Context Switch above	ess and loading the save b. State	ed state	e of the new process is calle c. Multi programming		 one of the
61. Resource locking a. Allows multiple tasks to simultane time	eously use resource		b. Forces only one task to	use any i	resource at any
c. Can easily cause a dead lock cond	ition	d. Is no	ot used for disk drives		
62. Operating system is a. A collection of hardware compon c. A collection of software routines	ents	d. All c	b. A collection of input out of the above	put devi	ces
63. Piece of code that only one thre a. Mutual Exclusion	ad can execute at a tim b. Critical Section	ne is cal	led c. Synchronization	d. All	
64. I/O function allows to exchange a. Process States	data directly between b. Registers	an	c. I/O module and process	or	d. I/o devices



65. Memory of comput a. array of characters		provides y of alphabets	c. array of w	vords	d. array of nun	nhors
a. array or characters	D. alla	y or arphabets	c. allay of w	orus	u. array or nun	ineis
66. Processor-I/O invol a. Computers	_	between nd I/O modules	c. Registers		d. User Proces	ses
67. Invalid memory acc	ess to computer syst	em is a				
a. trap	b. program		c. process		d. interrupt	
68. The directory conta a. /etc &	nins special files assoc o. /dev	iated with input ou c. /bin		ch as terminals evice	s, line printer etc e. /mnt	
69. The utility program a. Find search	that searches a file, ob. grep	or more than one fil c. tr				ttern f.
70. The Block of every name, number of bloca. Inode block		s , free inode list et	C		tem such as file sy: ata block	stem
a. Mode block	b. Super block	С. ВС	oot block	u. D	ala DIOCK	
71. Unix OS was first de a Microsoft Corp, USA	eveloped at b. AT & T Bell I	Labs , USA	c. IBM , USA	d.Borlan	d Internationa	, USA
72. Internal value asso	ciated with the stand	ard error device.				
a. 0	b. 1	c. 2		d.9	e.3	
73. A file may have mo a. dup	re than one name. Th b. In	iis is accomplished u	_	he following c		
74. Which command d			=	مد الم		
a. ps e. ps -u	b. ps -f		c. ps -er	d. p	s —a	
75. Part of the system terminals, communicat			er system, keep	track of the d	isks, tapes, printe	rs,
a. Schedular	b. Kernel	c. Sh	nell d. Re	esource manag	ger e. System call	
76. Chmod 754 on a file	2					
a. allow group and oth			b. allow ow	ner to only rea	d	
c. allow others to only		d. al	low group to o	nly execute		
77. If your process refu	ses to die with kill co	mmand in the norm	nal number, sigr	nal number op	tion used is	
· · · · · · · · · · · · · · · · · · ·		c. 3	d.0	e.99		



a. An Interpreter the above	b. A Compiler	c. An Operating System	d. None of
79. A null variable X ca	n be created using		
a. X=	b.X=''	c.X=""	d. all the above
80. init halts t	he system		
a. 1	b.0	c. h	d.5
a. Read, write and exect b. Read, write and exect permission for all other c. The file owner is the	rs. only one who can execute the	ner, read and execute permissio	
82. A hierarchical struc	ture consisting of directories a	nd files	
a. Track	b. cylinder	c. partition	d. filesystem
83. Which of the follow a. home directory	ring is not a component of a us b. password	er account? c. group ID	d. kernel
84. The redirection sym			
a. >	b.<	C.^	d.
85. To find out a file's ai	inode number, use this option binode	on the "Is" command. cinum	din
	g of a current users in all termi ling in that terminal of the curr users		
87. Which of the follow a. C shell	ving is not a major Unix shell? b. WIN shell	c. bash shell	d. Korn shell
	ectory		
89. The run configurati	on file in Vi is called		
a. cshrc	b. virc	c. bashrc	d. exrc



90. Use the following con	nmand to save and exit	from Vi.		
a. ZZ option	b.:w	c. :q!	d. wq	e. Both a and d
91. Which of the followin	g Unix utilities are not c b. sed	ommonly used t c. cut		
92. Which file controls th a. Fstab	e initialization process? b. inittab		configtab	d. gettytab
93. Names are associated association is the job of t		so that users do	not have to rememb	pers IP addresses, This
a. IPN	b. DNS	c. INS	d. T	CP e. IP
94. New users are added a. /passwd	into this file. b. /usr	c./etc/passw	/d d./	home
95. Passing information based a. Program intertalk c. Interprocess communications		b. Program co	ommunication k communication	
96. To make a variable av a. Import	railable to any subshells b. global	you execute usi c. export	ng command d. set	e. path
97. User request backgro a. #	und execution of a prog b. @	ram by placing v	what at the end of th d. *	ne command line e. !
98. With a umask value o ax—x-wx	f 12, What are the defau brw-rw-r—	ult permissions a cr-xr-xr—	assigned to newly cre drw-rw	
99. The tar command is u a. Print the contents of a c. Making archive tapes			ing a file before prin	ting
100. Which one is not a ca. Connect commands c. Can create individual fi		tput		an be used on a command line d with tee symbol
101. To create a hidden f a. Filename typed in uppe c. Filename containing #	er case	d. Firs	b. First character o	of filename is. (dot) me is \$.
102. The "nice" command a. Communicate with oth c. Change Priority levels of its look nice	er users	b. Imp	orove relationships d. Create processe	ese. format a document so that

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		_	b. Transmissio d. None of the	on Control Protocol/Internet Protocol e above	
104. Which special va a. \$job	ariable contains the PIC b. \$\$	of its own pro c. PID	cess?	d. \$ps	
105. The process that a. telnetd	t needs to run in the ba b. syslogd	ackground as a c. fsck	daemon to ens d. All of these	sure that logging happens is:	
106. The minimum nu	umber of link for a dire	ectory is			
a. 1	b. 2	c. 6	d. 3	e. 5	
107. Answer the following:- What is the difference between the two commands. \$ cat < fileone > filetwo 2> errorlst \$ cat > filetwo 2> errorlst < fileone Ans: It's a same command, the order of redirection make no difference 108. 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 \$? 109. 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					
110. 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					
b. system service prov	ams that manages hard vider to the application e hardware and applica	n programs	S		

c. library

d. assembly instructions

113. To access the services of operating system, the interface is provided by the

b. API

a. system calls

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 114. Which one of the following is not true? a. 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 c. kernel is made of various modules which can not be loaded in running operating system d. kernel remains in the memory during the entire computer session 						
115. The systems which allows only one process execution at a time, are called a. uniprogramming systems b. uniprocessing systems c. unitasking systems d. none of the mentioned						
116. What is the ready state of a process? a. when process is scheduled to run after some execution b. when process is unable to run until some task has been completed c. when process is using the CPU d. none of the mentioned						
117. The number of processes completed per unit time is known as a. Output b. Throughput c. Efficiency d. Capacity						
· · · · · · · · · · · · · · · · · · ·	b. the activity just executed by the processd. the current activity of the process					

120. The Process	Control	Block is:

a. New

a. Process type variable b. Data Structure c. a secondary storage section d. a Block in memory

c. Waiting

d. Running

121. The degree of multi-programming is

a. the number of processes executed per unit time
b. the number of processes in the ready queue
c. the number of processes in the I/O queue
d. the number of processes in memory

122. The objective of multi-programming is to: (choose two)

119. Which of the following is not the state of a process?

b. Old

a. Have some process running at all timesb. 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 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

a. waiting time b. turnaround time c. response time d. throughput



125. Which scheduling algorithm allocates the CPU	first to the process that requests	the CPU first?		
a. first-come, first-served scheduling	b. shortest job scheduling	T		
c. priority scheduling	d. none of the mentioned	d. none of the mentioned		
126. Time quantum is defined in				
a. shortest job scheduling algorithm	 b. round robin scheduling 	; algorithm		
c. priority scheduling algorithm	d. multilevel queu	e scheduling algorithm		
127. An interrupt breaks the execution of instruction	ons and diverts its execution to			
a. Interrupt service routine	b. Counter word register			
c. Execution unit	d. control unit			
128. How does the processor respond to an occurr	ence of the interrupt?			
a. By Interrupt Service Routine	b. By Interrupt Sta	itus Routine		
c. By Interrupt Structure Routine	d. By Interrupt System Ro	utine		
129. On getting, an interrupt, CPU a. finishes the current instruction and moves to int	errunt service routine			
b. immediately moves to interrupt service routine		ction [
c. releases the control on I/O lines and memory lin				
d. makes the peripheral device, which requested the		of time		
a. makes the peripheral action, which requested the	ie interrupt wateror incumental	or time		
130. Round robin scheduling falls under the categor	ry of :			
a. Non preemptive scheduling	b. Preemptive sch	eduling		
c. Preemptive and Non-preemptive	d. None of these			
131. The portion of the process scheduler in an ope	erating system that dispatches pro	cesses is concerned with		
a. assigning ready processes to CPU	b. assigning ready proces	ses 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 que	eue			
b. first executes the job that came in first in the qu	eue			
c. first executes the job that needs minimal process	sor			
d. first executes the job that has maximum process	or needs			
133. Under multiprogramming, turnaround time fo	r short jobs is usually a	nd that for long jobs is slightly		
a. Lengthened; Shortened	b. Shortened; Lengthened	d		
c. Shortened; Shortened	d. Shortened; Unchanged			
	6.1			
134. The swaps processes in and out a. memory manager unit b. CPU	of the memory. c. CPU manager	d. user		
a. Including manager unit D. Cro	C. CFO IIIaliagei	u. usei		



135. Memory management main memory is called	technique in wh	ich system stor	es and retrieves data from s	secondary storage for use in
a. fragmentation	b. paging		c. none of the mentioned	
136. Operating System main a. each process address	· -	able for ı thread	c. each instruction	d. each
137. The main memory acco	mmodates: (Ch	• •	c. user processes	d. All of these
138. In contiguous memory a. each process is contained b. all processes are contained c. the memory space is cont d. None of these 139. When memory is divide	in a single conti d in a single cor iguous	itiguous sectior	n of memory	ntain
a. exactly one process these		ast one process		
140. In fixed sized partition, a. the number of partitions			ng is bounded by c. the memory size	 d. All of these
141. In internal fragmentation a. is being used		iternal to a part it being used	cition and c. is always used	d. None of these
142. Solution to the problem a. permit the logical address b. permit smaller processes c. permit larger processes to d. All of these	space of a proc to be allocated	ess to be noncomemory at last		
143. External fragmentation a. enough total memory exists. the total memory is insuffic. a request cannot be satisf	sts to satisfy a re ficient to satisfy	a request		
144. When the memory allo a. internal fragmentation oc d. neither a nor b			ger than the process, then gmentation occur	c. both a and b
145. Physical memory is bro a. frames	ken into fixed-si b. pages		ed Ing store	d. None of these
146. Logical memory is brok a. frames	en into blocks o b. pages		called ing store	d. None of these



147. The size of a page is typa. varied	pically: b. power of 2	c. power of 4	d. N	Ione of these	
148. Because of virtual men a. processes	nory, the memory ca b. threads	n be shared among c. instruc	ctions	d. none of the men	tioned
149. Swap space exists in	h cocondary mom	ory c CDII		d. none of the men	tionad
a. primary memory	b. secondary mem	ory c. cpo		u. Home of the men	tioneu
150. When a program tries then	to access a page that	is mapped in addre	ess space but not	loaded in physical mem	iory,
a. segmentation fault occur	s b. fatal error occur	c. page f	ault occurs	d. no error occurs	
151. CPU Scheduling is the k a. Batch	b. Uniprogrammin		orogramming	d. Monoprogramm	ing
152. CPU performance is meas. Throughput the above	easured through b. MHz	c	. Flaps	d. N	one of
153. Process isa. Program in high level lanc. A program in execution154. Which among following	g scheduling algorith	ms give minimum a	. A program in severage waiting tir	ne	
a. FCFS	b. SJF	c. Round	robin	d. Priority	
155. Paging a. solves the memory fragm c. allows structured program			. allows modular s deadlock	programming	
156. Virtual memory is a. An extremely large main c. An illusion of extremely la	•		remely large seco	ondary memory ry used in super compu	uters.
157. The two steps of a prod a. I/O Burst	cess execution are: (o b. CPU Burst	•	ory Burst	d. OS Burst	
158. An I/O bound process v	will typically have:				
a. a few very short CPU burs	sts	b	. many very short	: I/O bursts	
c. many very short CPU burs	sts	d	. a few very short	I/O bursts	
159. A process is selected fr a. blocked, short term	om the queu b. wait, lon		scheduler, to be e . ready, short terr		ng term

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160. With round robin scheduling algorithm

a. using very large time slices converts it into First come First served scheduling algorithm

b. using very small time slices converts it into First come First served scheduling algorithm

c. using extremely small time slices increases performance

d. using very small time slices converts it into Shortest Job First algorithm

161. Who is called a supervi a. Memory Unit	sor of computer activity? b. Operating System	c. OCI/O Device	d. Control
162. The kernel keeps track a. Process control block	of the state of each process b. User control block	by using a data structure calle c. Memory control block	d d. None of the above
a. Long term	lects the jobs from the pool b. Short term	of jobs and loads into the read c. Medium term	y queue. d. None of the above
164. What is Thrashing? a. A high paging activity c. An extremely long process	s	b. A high executing d. An extremely lon	•
165. Poor response times ar a. Busy processor		c. High pagir	ng rates d. Any of above
166 If process is rupping ou	wronth, oversiting it is in run	ning	
166. If process is running cu a. Mode	b. Process	c. State	d. Program
167. Microkernel architectu	re facilitates		
a. Functionality	b. Extensibility	c. Reliability	d. Portability
168. Privileged mode of ope a. user mode	rating system mode is a b. kernel mode	c. system mode	d. both b and c
169. An optimal scheduling	algorithm in terms of minim	izing the average waiting time	of a given set of processes is
a. FCFS scheduling algorithm c. Shorest job - first scheduli		b. Round robin sche d. None of the abov	
170. Which of the following	memory allocation scheme	suffers from External fragment	tation?
a. Fixed Memory Partition	b. Dynamic Memor	_	
171. Which of the following		ng data on the disk?	
a. Seek time	b. Rotational time	c. Transmission time	e d. Waiting time
172. A program at the time	-	·	
a. Dynamic program	b. Static program	c. Binded Program	d. A Process



	ge waiting time for the following set of processes given with
their priorities in the order: Process : Burst Time : Priori	ty respectively.
P1:10:3, P2:1:1,	
P3:2:4,	
P4:1:5,	
P5:5:2.	
a. 8 milliseconds b. 8.2 milliseconds	c. 7.75 milliseconds d. 3 milliseconds
a. 8 miniseconus	c. 7.73 miniseconds d. 3 miniseconds
174. A process is created and initially put in the	
a. ready queue b. job queu	ue c. I/O queue d. None
175. PCB =	
a. Program Control Block	b. Process Control Blockc. Process
c. Communication Block	d. None of the above PCB
176. Round robin scheduling is essentially the preempt	
a. FIFO b. Shortest job firs	t c. Shortes remaining d. Longest time first
477 5150	
177. FIFO scheduling is	Paradra Cahad Parad Jarahan
a. Preemptive Scheduling b. Non Preemptive Sched	uling 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	b. of o is dilocated to the process with
c. equal priority processes can not be scheduled	d. none of the mentioned
ci equal priority processes carried ac solication	ar none of the members
179. In priority scheduling algorithm, when a process a	rrives at the ready queue, its priority is compared with the
priority of	
a. all process b. currently running proce	ess c. parent process d. init process
180. Turnaround time is	
a. the total waiting time for a process to finish executio	n
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	n of a process
181. Waiting time is	
a. 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 running queue	
d. the total time from the completion till the submission	n 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

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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 submission time till the response is output d. None of these
184. The FCFS algorithm is particularly troublesome for a. time sharing systems b. multiprogramming systems c. multiprocessor systems d. Operating systems
185. One of the disadvantages of the priority scheduling algorithm is that: a. it schedules in a very complex manner b. its scheduling takes up a lot of time c. it can lead to some low priority process waiting indefinitely for the CPU d. None of these
186. CPU scheduling decisions takes place under following conditions a. When a process switches from running to ready state b. When a process switches from running state to waiting state c. When a process terminates d. All of the Above
187. What is meant by throughput? a. Number of processes running in the system b. Number of process completed per unit time by the system c. Number of processes waiting for CPU per unit time d. None of the above
188. When CPU becomes idle which scheduler is called? a. Short term scheduler b. Medium term scheduler c. Long term scheduler d. Any
189. What is a medium-term scheduler? a. It selects which process has to be brought into the ready queue b. It selects which process has to be executed next and allocates CPU c. It selects which process to remove from memory by swapping d. None of these
190. What is Turnaround time of a process? a. Time spent in waiting queueb. Time spent in ready queue + waiting queue + running state c. Time spent in ready queue + waiting queued. Time spent in ready queue
191. Which scheduler selects which processes should be brought into the ready queue?

b.Long-term

c. when the process enters the blocked stated. when the process is in the ready state

a. when the page is not in the memoryb. when the page is in the memory

a. Real-term

192. A page fault occurs

16

d.Short-term

c. Medium-term



193. A CPU bound pr	ocess will typically have			
a. many very long CP	U bursts	•	y short I/O bursts	
c. many very short CI	PU bursts	d. a f	ew very short I/O bursts	
194. The chunks of a	memory are known as			
a. Sector	b. Offset	c. Page	d. Frame	
195. Which of the fol a. Paging	lowing concept is best to pre b. The working set	venting page faults? c. Hit ratio	d. Address location resolution	
196. Copying a proce a. Swap out	ss from memory to disk to all b. Deadlock	ow space for other pr c. Demand Paging	ocess is called d. Page fault	
system, device driver	rge kernel containing virtually s and memory management. b. Monolithic kernel		ting system, including, scheduling, file d. Macro kernel	
198. A a	rchitecture assigns only a fewion(IPC) and basic scheduling	v essential functions t	o the kernel,including address spaces, Inte	er
	more than one process of Multiprogramming		e all other process are waiting for the aneously each on a different processer. b. Multiprogramming, Uniprocessing d. Uniprogramming, Multiprocessing	
200. System call rout a. C	ines of operating system are b. C++	mostly written in c. java	d. both a and b	
	ardware trigger an interrupt? CPU through system bus		ecuting a special program called interrupt	
	program called system progr	ram d. Ex	ecuting a special operation called system	call
202. Which is not the a. Memory managem	e function of the Operating sy nent b. Disk management		gement d. Virus protection	
203. The page table 6	· ———————			
a. the information re valid or not	garding given page is valid or	not b. the	e information regarding given segment is	
	garding given page table is va	llid or not d. All	l of the above	
204. Binary Semapho	ores are used for		clusion d synchronization	

PG DAC Operating System Question Bank



205. Which CPU schedulin	ig algorithm is non-pree	emptive type	e from the followi	ng?			
a. Shortest job first sched	uling	b	b. Round robin scheduling				
c. Priority based scheduli	ng	d. First co	ome first serve ba	sed scheduling			
206. What will be the pos	sibility, when process co	omes in wait	t or block state?				
a. disk operation		b. time si	nce expire				
c. due to the higher priori	ty process arrival	d. All of t	he above				
207. What is attenuation?	,						
a. Noise of the cable above	b. Loss of signal stre	ength	c. Unwante	d signals	d. None of the		
208. Which one is he corre	process	g thread?					
b. Very similar to the proc							
c. Threads have there own			·	space			
d. Threads share the same	e address space that is u	ised by the	process				
209. What linker does?							
a. merging object files	b. sorting text and	data c.	resolve symbols a	across modules	d. All of the above		
210. A pointer is said							
translation unit. A translat	tion unit is the result of	merging an	implementation f				
a. This pointer	b. Opaque pointer	C.	Function pointer	d. Ne	sted pointer		
211. Which statement is t	rue for the deadlock?						
a. It is very usual, when a	process terminates, it b	ecame dead	process and his I	lead to dead lock	<		
b. Deadlock arises when a			- ·				
c. Deadlock arises when p				ndy hold by some	e other process and n		
onewant to release their r	resources						
d. Deadlock arises when w	ve try to lock the proces	ss and the p	rocess is in runnin	ng state that lock	become a dead lock		
212. By using interrupt wh	nich kind of problem wil	ll he elimina	ted?				
a. Spooling	b. Polling		Job Scheduling	d. None of th	e above		
		-					
213. Copy-on-write conce	pt is						
a. applicable only for two	unrelated processes	b	used by the proc	esses those crea	nted with the help of		
exec call							
c. used by the any kind of	process no restriction	d	used by the relat	ted processes			
214. What are the resource	ces for the computer sys	stem?					
	ystem buses c. Op		em code an d dat	a structure	d. All of the		
215. Which statement is t	rue from the following?)					

a. A safe state is a deadlock state always

c. An unsafe state has a probability to be a deadlock state

b. An unsafe state is a deadlock state always

d. All are tgrue



216. Virtual memory with p	aging mechanism (page	e-replacement to	echnique) p	rovides	
a. runtime relocatability	b. memory extensior	c. mem	ory protect	ion	d. All of the above
217. With any Disk Scheduli	ng Algorithms, Perform	nance depends o	on		-
a. Number of requests the above	b. Number ar	nd types of requ	ests c. T	ypes of req	uests d. None of
218. Which one is not a par	t of the kernel?				
a. Memory management			b. Debugge	ers manager	ment
c. Interrupt Management			d. Timer an	nd clock ma	nagement
219. How many processes of	an be active in a monit	or at a time?			
a. Any no of processes	b. Only one	c. Only two	d. None of	the above	
220. Which register is use for	or memory manageme	nt?			
a. base register			_	and stack po	ointe
c. base and bound registeru	iit	d. base and sta	ick pointer	register	
221. What is the use of the	program counter regist	ter?			
a. It points to the next prog	ram in the execution				
b. It points to the next instr	uction statement in the	e program			
c. It points to the next block	of code in the execution	on			
d. None of the above					
222. Which of the following	stack operation could	result as stack u	nderflow/		
a. is empty	b. pop	c. push		d. Two	or more of the above
answers					
223. Which statement is tru					
a. Cache memory is type of		-			able access memory
c. Cache resides between m	nain memory and CPU	d. Hard	disk is mad	le up of diff	ferent layer of the RAM
224. During process executi	on, which state transac	ction, is not poss	ible?		
 a. ready state to running sta 			_	state to blo	ck state
c. block state to terminate s	state	d. blocl	k state to re	ady state	
225. What is process contro	ol block?				
a. It is data structure that re	epresents the process				
b. It is a data structure, whi	•	•			
c. It is a data structure, which	•	•		•	
d. It is not a data structure v	which can be in virtual	address space it	represent t	he process	
226. Paging leads to					
a. Internal fragmentations	b. External fra	agmentations	c. E	3oth 1 & 2	d. All of the above



a. 0	Value associat b. 1	c. 2	andard error device d. 9	e. 3	
228. The redi	rection symbo	ol for output is			
a. >	b. <	c. ^	d.		
229. Which co a. Who	ommand will b. W	· · · · · · · · · · · · · · · · · · ·	lay the current use c. Who am i	er id and name? d. where is	
230. As an ab	straction, wha		pply to processes? c. status	d. All of the above	
231. Which co	ommand allov b. Is-	-	nine if a host is cor c. ping	nnected to the internet? d. pwd	
232. Compute a. Client		es concurrent u etwork Client	sers and multiple j c. Network serv		
233. Which o		g make up DOS e Managemen		files d. All of the abo	ove
a. The file is r b. Everyone c c. It is imposs d. The file car 235. Which o a. DLLs don't	eally a director an read, write ible for a htm not be viewed for the following get loaded in a promote device.	ory and was nai e, and execute I file to have pe ed on the WW\ g is true for DLI	ermissions set that W Ls? ess memory togeth		
236. On a sing a. Time division above			g generally occurs ulti processing	by c. Context switching	d. None of th
237. The abili	ty of an Oper	ating System to	execute different	parts of a program simultane	ously is known as
a. Multi - Tasl scheduling	king	b. Multi pro	gramming	c. Multi – Threading	d. Multi –
238. Which of a. To minimized. To minimized.	e seek time			ling? o. To maximize turnaround tim I. To maximize bandwidth	ne



	b. Scheduler	c. Allocator	d. Process allocator	
249.	determines whic	h process gets CPU a	nd when	
a. Memory	b. Thread	c. Space	d. Resources	
248. Anything tha	t can be used by only a	single process at an	y instant in time is called as	
throughout				
	size leads to fewer pag	-	d. A smaller page size reduces p	
	size leads to smaller pa		A smaller page size leads to move TL	.B misses
247 Which of the	following statement is	: false?		
resources it needs a. Locking		c. Starvation	d. Blocking	is iias tiie
246. In which situ	ation a process is preve	ented from proceedi	ng because some other process alway	s has the
a. Deadlock preve exclusion	ention b.	Deadlock avoidance	c. Deadlock recovery d.	. Avoiding Mutuai
			deadlock is inevitable is called as	
d. None of the abo	ove			
c. Both 1 & 2 d. None of the abo	ove			
	s can only occur when	bit 1 of the psw regis	ter is 1	
	ate transfer of control (caused by an event ir	the system	
244. What is an in	nterrunt?			
a. Physical addres	s b. Logical a	iddress c.	Absolute address d. Memo	ry address
243. When the pr	ocessor is in user mode	e, all addresses are _		
c. Dividing the res	source based on time o	r space	d. All of the above	
a. Combining reso	ources based on time		b. Combining resources based of	on space
242 Multiplexing	of a single physical res	ource involves		
[option][FILE]				
a. Cut [option][F		Print [option][FILE]	·	d. Comm.
2/1 Which comm	and will be used to pri	nt colocted parts of l	ines from each FILE to standard outp	u+2
a. Date-fri	b. Date-d fri	c. Cal-d f		
240. Which comm	nand will be used to dis	play what date is it t	his Friday?	
d. Mutual exclusion	on; hold and wait; non	pre-emption ; circula	r wait	
	on; hold and wait, pre-	•		
b. Mutual exclusion	on; hold and no wait; p		wait	
a. Muluai Wail; iid	old and wait; pre-empt	ion, circular wall		



a. Compaction	b. Segmentation	c. Paging	d. All of the a	bove
251. Which method is used a. Disk Scheduling b. Dis	by memory to improve k caching	disk performa c. Both 1 & 2		e above
252. When paging techniqu a. It is a solution to external c. Both 1 & 2			b. It is used to allow e of the above	a process to be allocating
253. Which method is used a. System call b. CP		equest to oper nory Managem	= :	all
254. The ability of a comput large portion of it has been a. Fault tolerance		is called as		ted functionality even when a
255. Memory allocation a. is a process involves spec b. is an aspect of a more ge c. Both 1 & 2 d. None of the above	•		structions and data	
256. Which type of binding a. Static binding binding	perform before the ope b. Dynamic binding		gram begins? chronous binding	d. Asynchronous
257. Which of the following a. Allocation is performed d c. No wastage of memory	-		on? b. Allocation exactly d. All of the above	equals data size
258. Pre-emptive scheduling a. To allow starving process c. When it requests I/O	-	-	unning process ore the CPU time slice d. When interrupt o	expires
259. The memory allocated a. Code and non static data c. Program controlled by dy	of the program to be ex		b. Stack d. All	of the above
260. Which of the following	·	=		d Cafe wade
a. Interrupt mode	b. Running mode	c. ivler	nory access mode	d. Safe mode
261. When a process termina. Child termination	nates and all it's child pr b. Child parent termir			ation is called as d. Cascading termination
262. Which of the following a. Program counter register	-	ss of the next	instruction to be exec c. Control register	



263. When an interre	upt arises during it	s execution and t	he scheduler se	lects some other	program for execution is
called as					
a. Preemption	b. Non Pr	eemption	c. Priority	d. Interrupt Pr	rocessing
264. Page-replaceme	ent technique prov	ides			
a. Memory contracti	on b.	Compile time rel	ocability c. M	emory protection	d. None o
the above					
265. Swap space resi	ides in				
a. SRAM	b. DRAM	c. Processor	d. Di	sk	
266. Which of the fo	llowing policy is us	ed by Linux for pa	age replacemen	nt?	
a. LRU	b. Optimal	c. FIFO	d. M		
a. Livo	b. Optimal	C. 111 O	u. W	NO	
267. Which of the fo	llowing statement	is false?			
a. Dirty buffers in the	_		when the cach	ne is too full	
b. Each buffer in the					allocator
c. The vnode data st					
c. The viloue data st	detaile of the virte	- Jacobs	itanis poniters (o device specific	Tarretions
268. A process sends	data to another p	rocess and the se	nder does not	wait till the data i	s received by the receive
This type of transfer					
a. Synchronous	b. Asynch	ronous c Blo	– ocking	d. None of the	ahove
a. Synemonous	D. Asyrici		ocining	di None or the	dove
269. Which comman	d would vuluse to	create a sub-dire	ctor in your hor	me directory?	
a. mkdir	b. dir	c. cp	d. rn		
a. mkan	b. dii	с. ср	4. 111	•	
270. Which comman	d will display a cal	endar?			
a. calendar	b. cal	c. dis cal	d. vie	ew cal	
		0.0.00	5.1 1.1.	211 00.	
271. The interval bet	ween submission	of a request and t	he first respons	se to that reques	t is called as
a. Turnaround time	b. Time d		c. Response		uest time
272. A unique numb	er is used to look u	p an entry in the	inode table wh	ich gives informa	tion on the type, size and
location of the file is				J	,, ,
a. Inode value	b. Inode		c. Inode nur	nber d. All o	f the above
273. Which of the fo		e degree of multi			
a. Long term schedu		Short term sched		oth 1 & 2	d. None of the above
ar zong term soneaa					
274. How can you vie	ew the permission	-settings on all file	es in the curren	t directory?	
a. displayall	b. Is-I	occembo on an inc	c. listall	c an eccory.	d. listdir
a. 3.5p.3,311	D. 13 1		c		
275. Which comman	d sends file conter	nt to standard out	put and list the	content of short	files to the screen?
a. echo	b. cp		c. cat		e of the above
	о. ср		0. 000	G. 11011	2 2. 11.0 40070
276 Wiletaka Cili C	Haritana a	٠- (-۱ ٦			

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a. Virtual memory is fragmentation	used only in multi-user systems	b. Segmentation suffers from external			
_	n internal fragmentation	d. Segmentation memory can be paged			
	io the First-Come, First-Served sched ting for a CPU bound job to finish?	uling policy, I/O bound proces	ses may have to wait long in		
a. Aging	b. Priority inversion	c. Priority Inheritance	d. Convoy effect		
virtual memory envir					
a. the instruction set	architecture b. page size c. nun	nber of processes in memory	d. physical memory size		
279. Bootstrap loade	r is				
a. A program, which is	resides in the user space resides in the RAM	b. A program, which resides d. A program, which is a mo			
=	ibrary implementation in Linux sched				
	out the help of the kernel	b. user threads with the help			
b. user threads with	the help of kernel	d. user threads with the help	o of heavy weight		
201 Cogmontations	loads to				
281. Segmentations I a. External fragmenta		c. Both 1 and 2	d. all of the above		
282 What is the fund	damental scheduling block for operat	ing system?			
a. Kernel thread	b. Process Control Block (PCB)	c. Light Weight Proc	ess d. User		
thread	5	0. 2.8	G. G		
283. Which inter pro	cesses Communication mechanism is	fastest to exchange the data	between processes?		
a. PIPE b. FIFO	c. Shared Me	mory d. Message Q	lueue		
284. What ping comr					
	O_REQUEST to network hosts	-	UEST to network servers only		
	ECHO_REQUEST to network host	a. It sends ICMP non	ECHO_REQUEST to network		
severs only					
285 How can we find	d out the free space size to use on Lir	uv System hard disk nartition	2		
a. df-hs	b. freedisk-hs	c. fdisk-hs	d. None of the above		
		01.101011.110			
286. How can we get	the information about the CPU on th	ne Linux system?			
a. cat /usr/cpuinfo	b. cat /proc/cpuinfo c. cat	/root/proc/cpuinfo d. cat	:/root/usr/cpuinfo		
287. Loader is use to					
	m harddisk to main memory				
	ite program into the main memory				
c. create the process	and load in to the main memory				

d. just make the program ready to load and loading in to memory is done by another Process

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288. Where the main system a. /var/log/message	message log file informa b. /usr/log/message	ation get stored? c./src/log/message	d./root/log/message
289. Which command can be a. shutdown-r now	e use on Linux platform t b. Shutdown	o shutdown the system? c. init 0	d. init 6
290. What type of file systen	n Linux is using?		
a. FAT-32	b. NTFS	c. LFS	d. Ext3
291. What is the kernel archi a. Micro kernel kernel	tecture for Linux? b. Macro kernel	c. Mo	onolithic kernel d. Hybrid
292. What happens when a page. Process will terminate b. Process will block c. None of the above d. The process will restart after.			nge table entry will
293. Virtual memory with pa a. runtime relocatability	ging mechanism (page-r b. memory extension		
294. Which of the following s a. is_empty b. Pop	·	sult as stack underflow? I. Two or more of the above	1 e answers
295. How can we find out the a. df-hs	·		ition? one of the above
296 means			hen an object of the subclass is
a. Slicing b. Up o	casting c. Down	Casting	d. Name Mangling
297. Which CPU scheduling a a. Shortest job first schedulir c. Priority based scheduling	ng	otive type from the following b. Round robin schell. First come first serve bas	duling
298. Which system call will y a. getp()		of the process? c. getparentid()	d. None of the above
299 means the or returned by value or from			n an object of the subclass is passed
	casting c. Down		d. Name mangling
300. Which statement is false	e?		

a. Spanning tree is a tree associated with a network

b. A minimum spanning tree is a spanning tree organized so that the total edge weight between nodes is minimized



c. Minimum spanr d. None of the abo		gives the shortes	t distance between any 2 specified nodes	
301. An array is ha	aving 12 elements, v	vhat will be the n	naximum number of comparisons that	
a. 144	b. 12	c. 11	d. 13	
	en a hardware inte d context-saving oc	cur b.	context-switch and context-saving occur None of the above	
a. Process will terrb. Process will bloc. All of the above	minate ck		alid_illegal virtual address? the main memory and page table entry will update.	
304.	signal generate	when we try to a	ccess the illegal memory location using invalid pointer	
a. SIGSTOP	b. SIGSEGV	c. SIGTERN		
305. An array is ha	aving 12 elements, v b. 11	vhat will be the n c.12	naximum number of comparisons that required in Merge so d. 13	ort?
a. write the excep b. display an error c. delete the recor d. terminate the p	tions into a file and message and halt p d containing an errorogram	continue analysin processing	insactions runs into an error, it should ng transactions	
307. inode numbe	r represents n the file system uni	quely	b. all types of files on the file system uniquely	
c. all process runn	•	query	d. use of the code in the file system	
308. Which of the a. Every binary tre	following is a false are has at least one nat most two childre	ode		
309. Drivers const	itute which part of	the Linux Operati	ng System?	
a. Kernel	b. Shell	c. Applicat	ions d. GUI	
310. Which is the a. KSH	default shell used b b. BASH	y the Linux OS? c. SSH	d. ASH	
311. Which comm	and will list out all f	iles including hid	den files?	
a. ls -l		ls -r	d. Is -a	



aa	b. –v	cR	dc		
313. Which one of th	_	es a relative path? ·/lib/ c. /home/stud	lent	d. /scripts	
314. How does a use a. cwd	r find out which b. mv	n directory he is curren c. pwd	tly working in? d. ls		
315. Which command	d is used to ren b. cp	ame a file? c. mv	d. none of the	e above	
316. Which commanda. del b. rm		nove an empty director c. rm	ry? d. rmdir		
317. Which of the fol a. more emp.db cu	_		ore emp.db > c	cut -f 3 -d " "d. more en	np.db > cut -f 3
318. The touch comma. modification time the above	•		ess time only	c. modification time o	nly d. none of
319. Which commanda. tar b. zip	d creates an arc	chive and compresses in c. gzip		e of the above	
320. The command to a. chgrp	o change the ov b. chmod	wnership is c. takeown		d. none of the above	
321. chgrp does wha a. Changes the owne		ates a new group	c. Cha	nges the access rights	d. none of the above
322. chmod does wh a. updates the mode c. updates the access	of the file	d. non	b. changes the e of the above	e access rights	
323. How can read, v a. 0	vrite, execute (b. 7	rwx) permission be re c. 5 d. 8	presented in n	umeric form?	
324. Which command a.:wq	d is used only to b. :q	o save a file in vi editor c. :qa!		e of the above(:w)	
325. Which comman	d is used to cop b. w	oy a block of text in vi e c. p	editor? d. none of the	above(yy)	
326. Which command	d is used to sta	rt marking lines in vi ed	ditor?		





a. ALT + v	b. CTRL + v	c. SHIFT + v		d. none of the	above	
327. Which comman a. ALT + v	d is used to sta b. CTRL + v	rt marking a re	egion in v	vi editor? d. none of the	ahove	
a. ALI + V	D. CINL + V	C. Silli i + v		a. Hone of the	above	
328. Which should b	e the first line i	n every BASH	(shell) s	cript?		
a. !#/bin/bash	b. /bin/bash	c. #!/bin/bas	sh	d. none of the	above	
329. Which of the fo	llowing is a pos	itional parame	eter?			
a. &0	b. \$0	c. @0		d. none of the	above	
330.Which of the fol	lowing arithme	tic expression	is correc	ct?		
a. \$i=((i+1))	b. i=((i+1))	c. i=\$((i+1))		d. none of the	above	
331. Which is a valid	statement in a	shell script?				
a. echo "My name is	\$name" b. 122	=l	c. \$i=1	.3	d. none of the above	
332. Which is NOT a	valid statemen	t in a shell scri	ipt?			
a. echob. 122=I	c. i=14			e of the above		
333. Which comman	d can be used t	o modify the	color of t	the text which ap	ppears on screen?	
a. echo	b. cold	or		c. tput	d. none of the above	
334.The if construct	always ends wi	th?				
a. end if	b. stop		c. if	d. none	of the above(fi)	
335. The else part of	the if construc	t ends with?				
a. end else	b. stop	c. esl	е	d. none of the	above(fi)	
336. While testing ar	n integer variab	le what does -	-It indica	te?		
a. last				d) none of the	above	
337. Which is a valid	variable name	in a shell scrip	ot?			
a.123var	b. var*	c. \$va	ar	d. none of the	above	
338. Which is a valid	I/O redirection	command?				
a. more file.txt > /de	ev/null	b. more file.t	txt	c. more	file.txt <> cat d. nor	ne of the above
339. User space and	kernel space ar	e defined by:				
a. Kernel	b. Har	dware-CPU		c. Both 1 & 2	d. Administrat	tor
340. Conventional R	ΓOS uses					
a. only kernel space above	b. only user s	oace c. ma	y be use	r space and kerr	nel space	d. None of the

341. Which CPU scheduling algorithm is the Preemptive scheduling?

PG DAC Operating System Question Bank



a. First Come First serve (FCFS)	b. Round Robin (F	RR) c. Both	d. None of the	e above.				
342. Which CPU scheduling algorithm may suffer from the Starvation Problem a. Round Robin (RR) b. First Come First serve (FCFS) c. Priority scheduling d. None of the above.								
343. A Multithreaded programming Bena. Increase Responsiveness to user. c. Resource Sharing		ion of multiprocesso	r architecture.					
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 offset, what is the size of each page? a. 2^12 =4096 bytes b. 2			-bit page identifier pl d. None of the above					
350. Advantage of memory managementa. More Process can be loaded in the mob. A process whose image larger than mob. Both 1 & 2 d. None of the above.	omery, to try to keep t	the processor busy						
351. Following is not a Disk scheduling a a. First Come First serve (FCFS) LOOK	lgorithm: b. Round Robin		c. SCAN	d.				
352. Which of the following condition is a. Mutual exclusion and Hold-and-wait c. Both 1 & 2	b.	dlock No preemption and f the above.	circular wait					
353. LOOK disk scheduling algorithm: a. Select the request with minimum seel b. Moves the head from one end of the c c. Moves the head only as far as the fina first going all the way to the end of the c d. None of the above.	disk to other end, serv I request in each dired	vicing request along		ely, without				

354. Thrashing is:

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

355. Spooling

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- a. In spooling, a process writes its output to a temporary file rather than to an output device, such as a printer
- b. In spooling, a process writes its output to an output device, such as a printer
- c. Both 1 & 2
- d. None of the above.
- 356. 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
- 357. 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%

- 358. "Time Quantum" in Round Robin Scheduling algorithm:
- a. 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
- 359. 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

- 360. 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
- 361. "chmod " command in Linux
- a. Change the operating system mode

b. Change the command mode

c. Change Access mode of file

d. None of the above.

- 362. "grep" Command is used
- a. make each column in a document in a separate file
- b. combine a file and write them into a temp file
- c. search a file for lines containing a given format.
- d. None of the above.
- 363. A program which is loaded into memory & is executing is commonly referred to as a:
- a. Software.
- b. Job.
- c. Process.
- d. Program

364. Bankers Algorithm is used for:



a. Deadlock C Detection	Characterizatio	on b. Dea	dlock Handling	c. Deadlock a	avoidance	d. Deadlock
	=	-		nory allocated, we use		
a. TLB.	b. Fra	agmentation.	c. Ove	rlays. d. No	ne of the above.	
366. A	is a memory	area that stores	data while the	y are transferred bet	ween 2 devices:	
a. Spool			c. Cache	d. Kernel		
		display long list	_			
a. ls –l	b. is –a	c. ls –t	a. Is –r			
368. The	file stores	information abo	out file systems	that are mountable o	during booting:	
a. /lib		c. /etc/fstab			admig sooting.	
•	,					
			nge the current	working directory &	command is	Used to print the
		on the screen:				
a. cd, pwd	b. pv	vd, cd	c. cd, cp	d. cp, cd		
270	Is a special use	er who has ultim	ato privilago or	Linux system:		
a. Any user	=	per user		•	ne ahove	
a. Any asci	b. 5d	per user	c. Administrat	d. None of th	ic above	
371. In Linux,	we can displa	y the content of	text file by usin	ng the command:		
a. display	b. sh			d. All of the above		
		ed to change the				
a. change gro	oup	b. chgrp	c. char	ngep d. No	ne of the above	
373 If more t	than one proc	ess is blocked th	ne swanner cho	oses a process with tl	he	
a. Lowest Price	-	b. Highest Pri		c. Medium priority		ority.
d. Lowest I II.	oricy.	b. Highest H	ority.	c. Wediam priority	u. 110 1 11	ority.
374. In Batch	processing sy	stem the memo	ry allocator are	also called as	_	
a. Long – terr				rt – term scheduler	-	
c. Medium –	term schedule	er	d. Bato	ch – term scheduler.		
		sector of a disk	comes under th	e R/W head as the di	sk rotates. This tin	ne
Is called as		ency time	c tran	smission timo	d Dood/Write ti	mo
a. seek time	D. Iat	ency time	C. tran	smission time	d. Read/Write ti	me
376. All other	r processes wa	inting to enter tl	neir respective	critical regions are ke	pt waiting in a que	eue called as
a. Ready que	ue.	b. Waiting qu	eue c. Sem	aphore queue.	d. Critical queue	
377. There w	ould be some	time lost in turn	ing attention fr	om process 1 to proc	ess 2 is called as	
			_	c. Process turning.		



•					two sector and then number the
				n number the sector	as 1and so on)
a. Leaving.	b. Skippii	ng.	c. Interleaving.	d. Jumping	
379. An alternative a. Programmed I/O.		me of DMA is . Mapped I/O			d. I/O Controller
	cated. This i PMT).	= -	intaining anoth b. Page	terms of whether the ler data structure call Frame Data Table (P Block Descriptor (DBI	FDT).
381 proces switching).	ses tend to	be faster, sin	ce they do not	have to go to the ker	nel for every Rescheduling (Context
a. heavyweight prod	cesses. b	. Lightweight	processes.	c. Kernel processes.	d. System processes
382. To know the na a. \$0 b. \$1			n we use follow d. \$9	ing command (Bourn	e Shell).
383. To hold the exi a. \$\$ b. \$?			command 4. \$	command is used.	
384. To know the Pi a. \$\$ b. \$?			rocess d. \$	command is used.	
385. To know the pa a. PATH	ath of the S b. CDPA1		nmand is used. c. SHELL	d. PS1	
386. To print a file in	n Linux whi	ch command	is used		
a. print b. ls	–p c.	. lpr	d. None		
387. To create an aca. In b. sb	_		ng file, which co d. none	ommand is used	
388. The Linux come a. Copies all files sta b. Copies all files wi c. Compress whethe d. None of the above	arting with on th three-ch er a file star	ch to the direc aracter name	s and starting v	vith ch to the directo ectory book	ry book
389. Command used a. rline b. lin			f data from terr d. None of the		
390. In vi, to change a. cw b. wo			ode, one has to d. none	type	



```
391. What would be the output of the following shell script?
 foo=10
 x=foo
 eval y='$'$x
 echo $y
                                            d. $x
a. foo
              b. 10
                             C. X
392. In the following shell script
echo "Enter password"
read pas
while [ "$pas" != "secrete" ]; do
echo "Sorry, try again"
read pas
done
exit 0
a. If the 'pas' matches with 'secrete' in /etc/passwd file then shell script exits.
b. The shell script gives error in while statement
c. Irrespective of the users input, it always prints "Sorry, try again"
d. If user enters secrete then shell script exits otherwise it will read pas once again
393. The output of the following shell script would be:
for var in DAC August 2005
do
echo $var
echo " C-DAC "
done
                              b. C-DAC C-DAC C-DAC
a. DAC August 2005
                                                                   c. DAC C-DAC August C-DAC 2005 C-DA
       d. DAC C-DAC
394. fun(){
echo "enter a number"
read num
num=$(($num+1))
echo "$num"
}
fun
exit 0
396. The above shell script
a. takes a number from user, increments it, and prints to the terminal.
b. prints "num" to terminal
c. gives error in the line fun (function call), because it should be written as fun()
d. exits without doing anything
397. The computer itself uses
                                           language.
                                            c. Assembly
a. High level
                      b. Natural
                                                                   d. Machine
```



398. Which of the fo	llowing is no	ot an operat	ing system?			
a. SuSE	b. Unix		c. OSD	d. DOS		
=	_	=	ers may conta	in unresolved re	ferences. The	ese are resolved using othe
objectmodules by th	e	•				
a. linker	b. loader		c. debugger	d. com	piler	
400. Which of the fo	_		ry conditionfo	or a deadlock?		
a. Mutual Exclusion	b. Circula	r wait	c. No	preemption of r	esources	d. None of the above
401. An operating sy	stem is					
a. Integrated softwar			ftware	c. System soft	ware	d. Application software
402. Match the oper a. Thread1. Interrupt b. Virtual Address Sp c. File System3. CPU d. Signal 4. Disk 1. a-2, b-4, c-3, d-1 2. a-3, b-2, c-4, d-1 3. a-1, b-2, c-3, d-4 4. a-4, b-2, c-2, d-1	t		ns in the left o	column to the ha	irdware comp	oonents in the right columi
403. Which of the fo	llowing file	streams is n	ot opened au	tomatically in a	JNIX progran	1?
a. Standard terminal	b.	Standard in	out	c. Standard o	ıtput	d. Standard error
404. Transfer of info		and from ma Words	ain memoryta c. Bit	=	ns of d. Nibbles	
405. Virtual Memory a. is an extremely lar		 emory				
b . is an extremely la						
c. is a type of memor	_	-	ers			
d. allows execution of				ely in memory		
406. Page fault occur	rs when					
a. The page is corrup	ted by appl	ication softv	vare	b. The page is	in main mem	ory
c. The page is not in	main memo	ory		d. One tries to		-
407. An operating sy	stem with r	nultiprogran	nming capabi	lity is one that	·	
a. allows several use						
				switches the CPI	J from one jo	bto another as required
c. runs programs ove		n one proces	ssor			
d. None of the above	ة					

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408. Where does sw	ap space resio	le?		
a. Disk	b. RAM	c. ROM	d. On-chip ca	iche
409. A 1000 MB hard	d disk has 512	-byte sectors. Each trad	ck on the disk has 1000	sectors. The number of tracks on the
a.1024	b.2048	c.512	d.1000	
a. They save disk spa	ice	an advantage provided		b. They save space in main memory d. None of the above
411. Spooling isa. The rewinding of tb. The temporary stoit c. The recording of a d. None of the above	orage and man	nagement of output to	printers and other out	put devices until they can cope with
a. a delay in processib. messages receivedc. signals from hardyd. None of the above	ing due to ope d from other o vare or softwa	erating system overload computers	n from the operating sy	 ystem
a. Monitor	- \		tical Region construct	d. Segmentation
414. System calls are a. Software interrupt		· ———	direct jump	d. A privileged instruction
415. Paging is the tra a. Kernel		s between main memo omputer system	ory and the c. Auxiliary store	 d. Output device
416. Which of the fo a file?	llowing comm	nands is used to count t	the total number of line	es, words and characters contained in
a. count p	b. wc	c. wcount	d.countw	
417. The size of the va. Address bus	virtual memor b. Data bus	ry depends on the size c. Memory b		ne of the above
stops what it isdo	s data to trans ing and deals	sfer it makesan interru with the device		your attention, the processor then
			U	·O: -

c. when on word processor, if you type to much the computer makes an interrupt to let youthere is no more room to

type



d. When someone tries to a	dd to yourConversation	l				
419. Multiprogramming syst				_		
a. Are easier to develop than						
c. Execute more jobs in the s	same time period	d. Are	e used only on	e large mainframe Computers		
420. The components that to	ake data are located in	the				
a. Input devices	b. output devices	c. system un	it d. st	orage component		
421. What is one of the adva	antages of Paging?					
a. It does not suffer from int			b. It does no	ot suffer from spooling		
c. It does not suffer from ext		d. All of the	·			
422. The beautiful and a surround			da waafud			
422. The heart of any compu						
a. Information	b. Output	c. Kernel	a. Co	ommunication		
423. Which of the following	memory management	schemes does not all	ow multiprogi	ramming?3		
a. Fixed partition		b. Dynamic partition	1			
c. Single-user contiguous sch	neme	d. Relocatable dyna	mic partitions			
424. Which of the following	is the correct way of sa	deulating the address	of the page for	rama?		
			of the page if	amer		
a. Multiply the page frame nb. Divide the page frame size						
c. Add the page frame numb						
d. Multiply the page frame r						
a. Maidply the page numer	idiliber by the Displace	illelite				
425. Which of the following	concept is best at prev	enting page faults? 3				
a. Paging b. Hit	ratios c. The	working set	d. Address l	ocation resolution		
426. The total effect of all CI	PLI cycles from both 1/0	O-hound and CPUI-ho	und iohs, annr	rovimates which of the		
following distribution curves		boaria aria ci o bo	ana jobs, appi	Oximates which of the		
a. Gaussian distribution	b. Poisson distribution	n c. Lorentzian	Distribution	d. Random Distribution		
40= 144 L CH CH :		1		2		
427. Which of the following			_			
a. Contiguous storage	b. Non-contiguous sto	orage c. Ind	exed storage	d. Direct storage		
428. Which of the following	commands in UNIX give	es the user the capab	ility of execut	ing one program from another		
program?		•	•			
a. nice	b. fork	c. exexv	d. nohup			
429. What does a cycle in a	wait-for granh indicate	2				
a. Deadlock	b. Preemptive	c. Non-Preemptive	d Na	one of the above		
2. 2 cadioon	2		G. 140			
430. What kind of CPU burst	an I/O-bound program	n would typically have	e?			
a. Long	b. Short	c. Average	d. All of the	above		





431. UNIX uses the _	page replacement algo	rithm.		
a. LRU	b. MRU	c. FCFS	d. FIFO	
432. The	command will display the	absolute patl	nname for the directory	that you are working in. 2
a. dir	b.pwd	c.ls	d. wheream	ni
433. Which command	d would you use to create a b. dir	sub-directory c. cp	in your home directory d. rm	γ?
434. Which command	d can be used to display the b.cat	contents of a c. dog	file on the screen? d. grep	
· · · · · · · · · · · · · · · · · · ·	•			r execution
b. The process of mo	ng? ving a process within memo ving a process within memo ving a process to memory	•	_	
a. The process that re	gorithm, which process is allo equests the CPU first ne smallest CPU execution ti	b. 1	PU first?3 The process that reques None of the above	sts the CPU last
438. Which of the fol a. First-Come First-Se	lowing is not a scheduling alerve b. Round Be	_	Shortest Job First	d. None of the above
a. The process that re	s allocated the CPU first in Fo equests the CPU first ated the CPU randomly	-	cess that requests the C	CPU last
440. What will be the a. Any order	e order when information is b. Sequential order	•	th direct access? uential order	d. None of the above
	order when information is p		·	
a. Any order	b. Sequential order	c. Non-seq	uential order	d. None of the above
b. fast memory prese c. a reserved portion	refers to It can be plugged into the ment on the processor chip that of main memory used to save emory on the chip that is us	at is used to st ve important	tore recently accessed of data	data



443.A memory management a. Selecting memory chips bab. Storing as much data as poc. Using the cache to store data. Preventing data from bein	ised on their cost ossible on disk ata that will most likely	y be needed soon		·
 444. What do you mean by da. keyboard that allows for ab. The time it takes to read/wwritingdata on acomputer c. Pointing device you can us the pointer accordingly. d. A utility that reduces the apieces of each file contiguous 	more naturalpositioni vrite head to moveto a disk drive. e instead of a mouse.	a specific data track; or These devices sense th	ne of the delays	our finger and then move
445. Which of the following ra. Single-user contiguous schb. Fixed partition c. Dynamic partition d. Relocatable dynamic partir	eme	schemes optimizes fra	gmentation?	
446. The	is used to store t	the highest location in	memory access	ibleby each program.
447 blocks by moving programs a			ailable memory	space into contiguous
448. Which of the following a a. Requires that the entire pr b. Requires that the entire pr c. Requires that the entire pr d. Does not allow multiprogr	ogram be loaded into ogram be stored cont ogram remain in mem	memory iguously	·	l that apply)?
449. The phenomenon of parpartition is called	-	titions and the coincidi	ing creation of	unused spaces within the
450. Computers use thea. Processing	language to b. kilobyte	=	d. Representa	tional
451. Round-robin scheduling a. Non- preemptive	is b. It depends	c. Preemptive	d. None of the	above
452. Binary Semaphores are a. resource allocation	used for b. critical sections	c. mutual excl	usion	d. synchronization



a. Select the process from the ready queuec. Select and run the process from the ready queue	b. Run the process from the ready queued. None of the above
454. Which one is the correct statement regarding thread?a. Logical extension of the process.b. Very similar to the process.	
c. Threads have there own address space they do not use the d. Threads share the same address space that is used by the p	
455. During process execution, which state transaction, is not a. Ready state to running state b.	possible? Running state to block state
	Block state to ready state
456 signal generate when we try to access the illeg a. SIGSTOP b. SIGSEGV c. SIGTERM	al memory location using invalid pointer. d. SIGNULL
457. Which Inter Process Communication mechanism is fastes a. PIPE b. FIFO c. Shared	-
· ·	A program, which resides in ROM. A program, which is a module of the kernel space.
459. The page table entry contains a. the information regarding given page is valid or not. b. the information regarding given segment is valid or not. c. the information regarding given page table is valid or not. d. All of the above	
	user threads with the help of light weight process. user threads with the help of heavy weight process.
461. Segmentation leads to a. External Fragmentation b. Internal Fragmentatio	n c. Both 1 and 2 d. All of the above
 462. In static priority based scheduling 1. Priorities are decided at the time of the design and not char 2. Priorities are decided at the time of design and may be char 3. Priorities are decided by the scheduler during execution. 4. All of the above 	
463. Paging leads to a. Internal Fragmentation b. External Fragmentatio	n c. Both 1 and 2 d. All of the above
464 Conventional RTOS uses	

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a. only kernel space.	b. only user space.
c. may be user space and kernel space.	d. None of the above
465. With any Disk Scheduling Algorithms, Perform a. Number of requests c. Types of requests	ance depends on b. Number and types of requests d. None of the above
466. How can we get the information about the CP	II onthe Linux system?
a. cat /usr/cpuinfo b. cat /proc/cpuinfo	c. cat /root/proc/cpuinfo d. cat /root/usr/cpuinfo
467. Which is the Linux kernel image file from thefo	ollowing and what is location in the file system?
a. kimage and location is /boot	b. kernelimage and location is /usr
c. vmliunz and location is /boot	d. kimage and location is /usr
468. inode number represents	
a. the directory on the file system uniquely.	b. all types of files on the file system uniquely.
c. all process running on the system.	d. use of the inode in the file system.
469. Which one is default shell for the Linux?	
a. csh b. tcsh c. ksh	d. bash
470 Mikish statement is to 2	
470. Which statement is true? a. Process is a passive entity	
b. We cannot divide process in further threads.	
c. Process is an active instance of the program.	
d. Threads do not use the memory spaceprovided by	by the process.
471. Which module gives control of the CPU to the	nrocess selected by the short-term scheduler?
a. none of the mentioned b. inte	
472. The interval from the time of submission of a particle. The interval from the time of submission of a particle.	orocess to the time of completion is termed as b. waiting time
c. response time	d. throughput
arraspones (iii)	an an assurption
473. In priority scheduling algorithm	
a. none of the mentioned	
b. equal priority processes can not be scheduledc. CPU is allocated to the process with highest prior	rity.
d. CPU is allocated to the process with lowest prior	•
·	
474. Time quantum is defined in	
a. priority scheduling algorithm	

b. round robin scheduling algorithmc. multilevel queue scheduling algorithmd. shortest job scheduling algorithm

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475. Which one of the following can not be scheduled by the kernel?

a. none of the mentioned b. process c. kernel level thread d. user level thread

476. The two steps of a process execution are: (choose two)

a. OS Burst b. Memory Burst c. I/O Burst d. CPU Burst

477. 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

478. Complex scheduling algorithms:

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

479. 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

480. 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

481. 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

482. The page table contains

a. page size b. none of the mentioned

c. page offset d. base address of each page in physical memory

483. 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
- 484. 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 gen	erated by the CPU is bei	ng checked against th	e relocation and limit	registers
485. When memory a. multiple processes b. None of these c. exactly one proces d. atleast one proces	SS	ed sized partitions, e	ach partition may con	tain
486. In internal fragr	nentation, memory is int	ernal to a partition a	nd :	
a. is being used	b. None of thes	· · · · · · · · · · · · · · · · · · ·	t being used	d. is always used
a. All of theseb. permit larger procc. permit smaller pro	n to the problem of exteresses to be allocated meacesses to be allocated maddress space of a proces	emory at last nemory at last		
488 is g a. first fit, best fit, wo c. None of these	generally faster than orst fit	b. wors	st fit, best fit, first fit fit, first fit, worst fit	
a. A request cannot Ib. Enough total memc. None of these	entation exists when : oe satisfied even when the nory exists to satisfy a rec is insufficient to satisfy a	quest but it is not con		
490. Physical memor	ry is broken into fixed-siz	ed blocks called	·	
a. pages	b. None of these	c. frames	d. backing sto	re
491. Every address g a. frame bit	enerated by the CPU is o b. page offset	livided into two parts c. page numbe		ne offset
	e contains the base addre			
a. page	b. process	c. frame	d. mer	nory
493. With paging the a. None of these	ere is no fragm b. internal	entation. c. either type o	of d. exte	ernal
	registers should be built			
a. very low speed log c. very high speed log		b. None of the d. a large mem		
, 5 1	_	· ·	• •	

PG DAC Operating System Question Bank



- a. system service provider to the application programs
- b. link to interface the hardware and application programs
- c. all of the mentioned
- d. collection of programs that manages hardware resources
- 496. Which one of the following is not true?
- a. 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
- c. kernel remains in the memory during the entire computer session
- d. kernel is made of various modules which can not be loaded in running operating system
- 497. 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
- 498. The main function of the command interpreter is
- a. to handle the files in operating system
- b. none of the mentioned
- c. to get and execute the next user-specified command
- d. to provide the interface between the API and application program
- 499. By operating system, the resource management can be done via
- a. space division multiplexing
- b. none of the mentioned
- c. both (a) and (b)
- d. time division multiplexing
- 500. If a process fails, most operating system write the error information to a
- a. new file
- b. log file
- c. none of the mentioned
- d. another running process
- 501. Which facility dynamically adds probes to a running system, both in user processes and in the kernel?
- a. DAdd
- b. DLocate
- c. DTrace

- d. DMap
- 502. Which one of the following is not a real time operating system?
- a. RTLinux
- b. VxWorks
- c. Palm OS

d. Windows CE

- 503. The OS X has
- a. hybrid kernel
- b. monolithic kernel
- c. monolithic kernel with modules
- d. microkernel

- 504. The systems which allows only one process execution at a time, are called
- a. uniprogramming systems

b. uniprocessing systems

c. unitasking systems

- d. none of the mentioned
- 505. In operating system, each process has its own
- a. address space and global variables

b. open files

c. pending alarms, signals and signal handlers

d. all of the mentioned

506. A process can be terminated due to



,		b. all of the mentioned d. normal exit			
	nable to run until some heduled to run after sing the CPU				
508. The address of t	he next instruction to	be executed b	by the current process is pr	ovided by the	
a. process stack	b. program co		c. pipe	d. CPU registers	
509. The number of p	processes completed p	per unit time is	s known as		
a. Throughput	b. Efficiency		c. Output	d. Capacity	
•	of the process be executed by the pecuted by the pecuted by the process				
511. Which of the fol a. New	lowing is not the state b. Waiting	e of a process c. Ready	? d. Terminated	e. Old	
512. The entry of all tag. Process Register	the PCBs of the curren b. Process Ur	•	in : c. Program Counter	d. Process Table	
513. Process synchro a. both (a) and (b) c. none of the mentic	nization can be done o	b. ha	rdware level ftware level		
b. the CPU receives a c. the CPU runs a use	e data byte to the data n interrupt when the r written code and do	device is ready es accordingly	y for the next byte	r to show that a byte is available	
515. Fill in the blanks 1. Single system	s: image is obtained in o	case of			
2 Turnaround T	ima rafars 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.
8.	_FIFO_ and _Optimum page replacement algorithm_ are the popular page replacement algorithms.
9.	is to NT , where as is to DOS and is to UNIX.
10	. Give the expansion of the following with reference to the operating systems concepts: FCB is
11	IOCS is
12	. Throughput in case of multiprogramming is Number of programs processed by it per unit time
14	is process of modifying the addresses used in the address sensitive. instructions of a program such that the program can execute correctly from the designated area of memor. A program is a Passive entity, whereas a process is a Active entity.
	. Mutex is a _BinarySemaphore is the coincidence of high paging traffic and low CPU utilization.
18	. FCFS stands forFirst Come First Served
19	. The Scheduling policy in case of a batch processing system is
20	
	. Multiprogramming degenerates to system if there is no proper mix of CPU and I/O bound jobs.
22.	. DMA stands for _ direct memory access
23.	Protection of memory is ensured using and
24	is forceful deallocation of a resource.
25	. SPOOLING stands for simultaneous peripheral operations on-line



26. A operating system is an operating system which requires a timely
response from a computer system.
27 is a program in execution.
28. DOS is an example of user system.
29. Unix is an example of user system.
30. Unix uses scheduling policy .
31 and are the goals of an operating system.
32 is a distributed operating system.
33. The determines which process is to be executed next.
34. PSW stands for Pogram Status Word
35. Mutex is an acronym for Abbrevations
36. A tape is a Magnetic device.
37. Single system image is obtained in case of
38. Turnaround Time refers to
39. Short-term Scheduler or CPU-Scheduler scheduler selects the process that is ready to execute to CPU.
40 is an example of Distributed operating system.
41. Round Robin is an example of timesharing scheduling policy.
42is an example of shareable resource and is an example for nonshareable resource
43 and are the popular page replacement algorithms.
44. Unix is a,, and operating system.
45. Single system image is obtained in case of
46. Turn around Time refers to 47. Short-term Scheduler or CPU-Scheduler scheduler selects the process that is ready to execute to CPU.
48. Banker's algorithm is an example of Deadlock avoidance.



49	and are the popular page replacement algorithms.
50. /	A file is anything held on storage.
51. (Compaction is done when you have fragmentation.
52	is when more time is spent in paging than in actually running programs.
53. /	A thread is a Lightweight process.
54. ⁻	The process of loading the OS into main memory is done by the
55. ⁻	The motivations behind networks are,,&
56. I	NRU stands for and LRU stands forLeast Recently used .
57. 9	SPOOLING stands for simultaneous peripheral operations on-line
58. ⁻	Thrashing is the coincidence of high paging traffic and low CPU utilization.
59. ₋	is a path under execution.
60. ⁻	The OS maintains information about each process in a record called
61.	is a relation between number of page faults and number of page frames allocated to a process
62	is the implementation method in case of MS-DOS for non-contiguous allocation.
63	is a mechanism whereby the output of one process is directed into input of another process.
64. ⁻	The time elapsed for position of Read/Write head under the desired sector is called
65. ₋	, are the two ways to achieve relocation and address translation.
66. ⁻	The CPU utilization is low when the system is
67. <i>i</i>	A space allocated in units of fixed size is called
68. <i>i</i>	A modified page is also called as page.
	is an example of shareable resource and is an example for non-shareable resource.
	is forceful deallocationof a resource.
71. l	Jnix is an example of user system.

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72. The deter	mines which process is t	to be executed next.	
73. FAT stands forfile	allocation table .		
516. What do the followi	ng Abbreviations stand	for?	
a. FAT= file allocation tab	le.	b. PCB= process control block	<
c. LWP=light weight proce		d. DMA=direct memory acces	
517. Which of the followi	ng is a non-preemptive	O.S.?	
a. UNIX	b. Windows 95	c. Windows N	T d. None
518. The following is not a	a form of IPC		
a. Semaphore	b. Pipe	c. Shared memory	d. Buffering
519. The fol. is a part of F.	AT		
a. Sector info b. I	Disk type	c. Modified info	d. Date info
520. Device files in UNIX a	are b. Special files	c. Pipes	d. Unstructured files
a. Device drivers	b. Special files	c. ripes	d. Offstructured files
521. The time of admission	on of a job to ready que	ue to completion is :	
a. Turnaround time	b. Burst time	c. Response time	
522. The fol. Signal is sent	t by the DMA controller		
a. HREQ	b. HLDA	c. DRQ	
523. The main purpose(s) a. convenience for the use c. optimal use of computi	er	n is/are: b. efficient operation of the oderation of the oderation of the above	computer system
524. The signal the keybo	ard sends to the compu	iter is a special kind of message	called .
a. keyboard request	b. keyboard contro		
525. The available routing	schemes are :		
a. fixed routing	b. virtual ro	uting c. dynamic rou	uting
526. The interval from the a. Turnaround time	e time of submission of b. Waiting t	a process to the time of comple ime c. Resp	tion is oonse time
527. The I/O subsystem of a. A memory management b. A general device-driver c. Drivers for specific hard	nt component including interface	buffering, caching, and spooling	

d. All of the above

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528. Which of the following CPU scheduling algorithms will prevent starvation problem?

a. Shortest-job-first b. Priority-scheduling

c. Priorit echanism y-scheduling with aging d. None of the above

529. 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

530. 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

531. 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

532. 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

533. 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

534. 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

535. 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

536. 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.

537. 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

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538. Which of the following is a logical sequence of the four layers from bottom to top? a. 1, 2, 3, 4 b. 1, 3, 4, 2 c. 3, 1, 4, 2 d. 3, 4, 1, 2 539. A Job Control Language is used for a. telling the system about a job's resource requirements b. telling the system administrator / operator about job's resource requirements. c. telling the programmer how to program the resource requirements of a job. d. none of the above 540. Which was the first processor to introduce protected mode? b) 80286 c) 80386 d) 80486 a) 8086 541. The protected mode is necessary for d. 16 bit a. multi-tasking system b. multi-user system c. both a and b programming 542. The segmented memory is provided mainly. a. for higher speeds b.to maintain compatibility with old processors c. for ease of application programming d. simple hardware 543. Which of the following features is NOT found in RISC architectures? a. A limited instruction set b. A large number of registers d. A large number of execution modes c. Virtual memory 544. The first CPU with P6 architecture was a. Pentium b. Pentium Pro c. Pentium II d. Pentium III 545. The fastest storage element is a. CD-ROM c. EDO-DRAM d. SDRAM b. DRAM 546. Which peripheral requires the highest data transfer rate? a. Sound Card b. Network card c. Hard disk d. Graphics Adapter 547. A virtual memory is required for a. increasing the speed b. increasing the addressing modes c. overcoming the size limitation of main memory d. overcoming the size limitation of cache memory 548. When fork() is given a. It creates a child process b. Allocates slot in process table

d. All of the above

549. A TSR is a program which will

c. Returns 0 to parent & ID to child

- a. Be resident in the memory after termination of program
- b. Be called as and when the program is executed
- c. Terminate and Soon Remove the program from the memory

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d. All of the above

13. What do you mean by scalability?

14. What is a capability list? Where is it used?

550. CPU performa	ance is based on				
a. ALU width	b. Clock speed	d c. Nur	mber of in	structions executed per second	
551. In the system a. Yes	s which do not have mult b. No	ciple CPUs, is the 'cach	ne coheren	cy' an issue while design?	
552. 80286 the add a. 8 bit	dressing scheme is b. 16 bit	addressing c c. 24 bit `	d.28 bite	e. 32 bit	
	s \$0 and returns the ered in the command line	e b. Program n	ame	c. All of the above	
554. Profile file is p a. /usr	oresent in b. /usr/user1	c. /etc/admin	d. None	of the above	
555. Peak Bandwid a. 133 MB/s	lth of a 64-bit, 33 MHz ba b. 266 MB/s		e: 2 MB/s	d. 33 MB/s	
a. It offered more	ge of EISA bus over micro bandwidth over micro-ch compatible with ISA			. It had software configurable de le the existing peripherals run fa	
557. Which of the a. SSRAM	following devices is asynderal b. EPROM	chronous? c. Disk controllers	C	. All of the above.	
558. Which of the a. Windows-NT	following operating syste b. Solaris	ems is available for no c. linux	n-intel pla	tforms? d. all of the above.	
 Differential Can we pre What do you What is a do What is the Justify the so "It is possible timesharing "Swapping Describe th What do you What is Accordance 		nd process and I/O boing mutual-exclusion of erence? uit switching and packamming without using gramming" efficiency of system ut NING transition. incase of operating sy is it used?	und proce ondition? . ket switchi g timeshar cilization".	ss. Justify your answer. ng? ing. However it is impractical to s	support

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- 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?
- 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.

560. Explain the following:

- a) Semaphores
- b) Disk caching
- c) Working set
- d) Locality of reference
- e) DMA
- f) Non-preemptive OS

561. Long answer Questions:

- 1. 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