Progress Test 1 Total points 20/20 The respondent's email as recorded on submission of this form. Q1. To access the services of operating system, the interface is provided 1/1 by the ____ System calls API Library Assembly instructions **Feedback** System calls

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Q2. By operating system, the resource management can be done via1	/1
time division multiplexingon	
space division multiplexing	
both time and space division multiplexing	
one of the mentioned	
Feedback both time and space division multiplexing	
 Q3 offers 3 kinds of services: batch, transaction processing, time- 1 sharing. 	/1
Server OS	
Mainframe OS	,
O PC OS	
Multiprocessor OS	
Feedback	
Mainframe OS	

Q4. A Process Control Block (PCB) does not contain which of the following:	1/1
Code Stack Bootstrap program Data Feedback Bootstrap program	✓
✓ Q5. A process stack does not contain	1/1
Function parametersLocal variablesReturn addresses	
PID of child process Feedback	✓
PID of child process	

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~	Q6. Which of these statements about processes are not true?	1/1
•	A program on disk. Associated with each process is its file and directory.	~
0	Associated with each process is set of resources such as executable code, data, stack, CPU registers value, and other information needing to run a program	
0	A program in execution.	
0	Process table stores all the information of processes.	
	eedback program on disk. Associated with each process is its file and directory.	
/	Q7. Which of the following is not the state of a process?	1/1
0	Ready	
0	Waiting	
0	Running	
•	Old	✓
Fe Oi	eedback Id	

~	Q8. Consider the following set of processes, the length of the CPU burstime given in milliseconds: Process Burst time P1 6 P2 8 P3 7 P4 3 Assume that the above processes are being scheduled with the SJF scheduling algorithm:	st 1/1
•	The waiting time for process P1 is 3ms	✓
0	The waiting time for process P1 is 0ms	
0	The waiting time for process P1 is 16ms	
0	The waiting time for process P1 is 9ms	
	eedback he waiting time for process P1 is 3ms	
~	Q.9. A of processing must be handled as a unit.	1/1
()	critical region	✓
0	semaphore	
0	line	
0	segment	
	eedback ritical region	

Q10. A problem with Priority scheduling in Interactive Systems is	1/1
on error	
synchronization	
deadlock	
starvation	/
Feedback	
starvation	

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✓	Q11. Which of these statements about Shortest Remaining Time First 1/1 Scheduling are true?
•	If a new process arrives with CPU burst length less than remaining time of current executing process, preempt. Gives minimum average waiting time for a given set of processes.
0	If a new process arrives with CPU burst length more than remaining time of current executing process, preempt. Gives maximum average waiting time for a given set of processes.
0	If a new process arrives with CPU burst length more than remaining time of current executing process, preempt. Gives minimum average waiting time for a given set of processes.
0	If a new process arrives with CPU burst length less than remaining time of current executing process, preempt. Gives maximum average waiting time for a given set of processes.
_	
F	eedback
ex	a new process arrives with CPU burst length less than remaining time of current recuting process, preempt. Gives minimum average waiting time for a given set of rocesses.

Q12. What is the Linux command to display ppid, pid of the parent processes and processes?	1/1
ps -e -o ppid,pid,command	✓
O ps	
process	
O pprocess	
Feedback	
ps -e -o ppid,pid,command	
✓ Q.13. Assume that Process A with 4 threads, Process B with 3 threads are running local scheduling, 50-msec for process quantum and threads run 10-msec/CPU burst. Which of possible scheduling for user level threads are true?	
B1, B2, B3, B1, B2, A1, A2, A3, A4, A1, B1, B2,	✓
A1, A2, A3, A4, A1, B1, B2, B3, B1, B2,	✓
A1, B1, A2, B2, A3, B3, A4, B1,	
B1, A1, B2, A2, B3, A3, B1, A4,	
Feedback	
B1, B2, B3, B1, B2, A1, A2, A3, A4, A1, B1, B2, A1, A2, A3, A4, A1, B1, B2, B3, B1, B2,	

Q14. Round Robin schedulers normally maintain a list of all runnab processes, with each process occurring exactly once in the list. V would happen if a process occurred twice in the list?	
CPU burst time of process more than time quantum.	
Process was swapped out and then swapped in.	
Process was blocked and then unblocked.	
All of the above.	✓
Feedback All of the above.	
✓ Q15. Operating System maintains the page table for	1/1
each process	✓
each thread	
each instruction	
each address	
Feedback each process	

✓ Q16. Physical memory is broken into fixed-sized blocks called	1/1
pages backing store	
segments	
frames	✓
Feedback frames	
Q17. Which of these statements about address space are not true?	1/1
Address space is the abstraction that is referenced to the set of addresses a process	
Address space is decoupled from the physical memory	✓
Address space is the linear address.	
None of the above.	
Feedback Address space is decoupled from the physical memory	

Q18. Suppose that a machine has 48 bits virtual addresses and 32 bits physical addresses. If pages are 4KB. How many entries are in the page	1/1
table if it has only a single level?	
2^36	✓
2^32	
2^20	
2^10	
Feedback	
2^36	
✓ Q19. A computer has 32 bits virtual addresses and 4 KB pages. How ma	ny1/1
Q19. A computer has 32 bits virtual addresses and 4 KB pages. How ma entries are needed for two level paging, with 10 bits in each part?	ny1/1
	ny1/1
entries are needed for two level paging, with 10 bits in each part?	ny1/1
entries are needed for two level paging, with 10 bits in each part? 4096	ny1/1
entries are needed for two level paging, with 10 bits in each part? 4096 4095	ny1/1
entries are needed for two level paging, with 10 bits in each part? 4096 4095 1024	ny1/1
entries are needed for two level paging, with 10 bits in each part? 4096 4095 1024	ny1/1
entries are needed for two level paging, with 10 bits in each part? 4096 4095 1024	ny1/1

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Q20. Consider a swapping system in which memory consists of the following hole sizes in memory order: 10 MB, 4 MB, 18 MB, 20 MB, 7 MB, 9 MB, 12 MB, and 15 MB. Which hole is taken for successive segment requests of 12 MB for worst fit algorithm?
12 MB
18 MB
15 MB
Feedback
20 MB

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