Started on Tuesday, 7 May 2024, 11:06 AM

State Finished

Completed on Tuesday, 7 May 2024, 11:15 AM

Time taken 8 mins 49 secs

Question 1

Complete

Marked out of 2.00

The following C program is executed on a Unix / Linux system:

```
#include < unistd.h >
  int main() {
    int i;
    for (i = 0; i < 10; i++)
       if (i % 2 == 0) fork();
    return 0;
}</pre>
```

The total number of child process created is ______.

Select one:

- a. 31
- b. 63
- c. 6
- d. 5

Question 2

Complete

Marked out of 2.00

Which of the following is an advantage of dynamic linking?

Select one:

- a. Increased execution speed
- b. Reduced memory usage
- c. Easier debugging
- d. Improved code readability

Question 3 Complete	Which of the following system calls does not return control to the calling point, on termination?		
Marked out of 2.00			
	Select one:		
	a. exec		
	o b. fork		
	o. wait		
	o d. ioctl		
Question 4	To aversome difficulties in Boodom Whiteen much laws which of the following statement /s is /ave		
Complete	To overcome difficulties in Readers-Writers problem, which of the following statement/s is/are true?		
Marked out of 2.00	1) Writers are given exclusive access to shared objects		
	2) Readers are given exclusive access to shared objects		
	3) Both readers and writers are given exclusive access to shared objects.		
	Select one:		
	a. both 2 and 3		
	b. 2 only		
	o. 3 only		
	od. 1 only		
Question 5	Which process can be affected by other processes executing in the system?		
Complete			
Marked out of 2.00	Select one:		
	a. child process		
	b. init process		
	c. parent process		
	d. cooperating process		

Question 6	Which disk scheduling algorithm moves the disk arm from the current position towards the
Complete	closest end of the disk and services all requests in that direction before reversing direction?
Marked out of 2.00	
	Colort one
	Select one:
	○ a. LOOK
	○ b.
	C-LOOK
	C.
	C-SCAN
	SCAN
Question 7	What is the header file to include when using the wait() system call?
Complete	
Marked out of 2.00	Select one:
	a. stdio.h
	b. sys/wait.h
	Sys/Walt.H
	o c. unistd.h
	o d. stdlib.h
Question 8	Which scheduling algorithm provides fairness in terms of CPU allocation?
Complete	
Marked out of 2.00	Select one:
	a. First-Come, First-Served
	b. Priority Scheduling
	c. Round Robin
	c. Round Robin

Question 9	Which of the following is an example of a dynamic linking library in Linux?	
Complete		
Marked out of 2.00	Select one:	
	alib (library)	
	bdylib (dynamic library)	
	cso (shared object)	
	ddll (dynamic link library)	
Question 10		
Complete	Which of the following is an advantage of user-level threads?	
Marked out of 2.00		
Warked out of 2.00		
	Select one:	
	a. Simpler representation	
	b. More efficient context switching	
	c. All options are correct	
	d. Easier to implement than kernel-level threads	
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