Operating System Practice Quiz-2

Total points 14/20

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0 of 0 points

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Questions Section 14 of 20 points

✓ 15. A process refers to 5 pages, A, B, C, D, E in the order : A, B, C, D, A, B, E, A, B, C, D, E. If the page replacement algorithm is FIFO, the number of page transfers with an empty internal store of 3 frames is? 1/1

- ○ 12
- ○ 10
- ◉ 9 ✓
- ○ 8

✗ 9. Which of the following statements are true? 0/1

i) Shortest remaining time first scheduling may cause starvation
ii) Pre-emptive scheduling may cause starvation
iii) Round robin is better than FCFS in terms of response time

- ○ i only
- ◉ i and iii only ✗
- ○ ii and iii only
- ○ i, ii and iii

Correct answer

- ◉ i, ii and iii

✓ 6. Which is the most optimal scheduling algorithm? 1/1

- (●) SJF – Shortest Job First ✓
- ( ) None of the mentioned
- ( ) RR – Round Robin
- ( ) FCFS – First come First served

✓ 2. Where is the operating system placed in the memory? 1/1

- ( ) none of the mentioned
- ( ) in the low memory
- (●) either low or high memory (depending on the location of interrupt vector) ✓
- ( ) in the high memory

✓ 19. Mutual exclusion implies that _____? 1/1

- (●) if a process is executing in its critical section, then no other process must be executing in their critical sections ✓
- ( ) if a process is executing in its critical section, then other processes must be executing in their critical sections
- ( ) if a process is executing in its critical section, then all the resources of the system must be blocked until it finishes execution
- ( ) none of the mentioned

✓ 12. Virtual memory is normally implemented by _____? 1/1

- (●) demand paging ✓
- ( ) buses
- ( ) virtualization
- ( ) all of the mentioned

✓ 1. CPU scheduling is the basis of _____? 1/1

- ( ) multiprocessor systems
- (●) multiprogramming operating systems ✓
- ( ) larger memory sized systems
- ( ) none of the mentioned

✗ 17. What is the reason for using the LFU page replacement algorithm? 0/1

- ( ) an actively used page should have a large reference count
- ( ) a less used page has more chances to be used again
- (●) all of the mentioned ✗
- ( ) it is extremely efficient and optimal

Correct answer

- (●) an actively used page should have a large reference count

✗ 11. What is the reason for using the LFU page replacement algorithm? 0/1

- ○ it is extremely efficient and optimal
- ○ an actively used page should have a large reference count
- ○ a less used page has more chances to be used again
- ◉ all of the mentioned ✗

Correct answer

- ◉ an actively used page should have a large reference count

✗ 20. Semaphore is a/an _____ to solve the critical section problem. 0/1

- ◉ special program for a system ✗
- ○ hardware for a system
- ○ integer variable
- ○ none of the mentioned

Correct answer

- ◉ integer variable

✓ 18. Concurrent access to shared data may result in _____? 1/1

- (●) data inconsistency ✓
- ( ) data insecurity
- ( ) none of the mentioned
- ( ) data consistency

✓ 8. Choose one of the disadvantages of the priority scheduling algorithm? 1/1

- ( ) it schedules in a very complex manner
- ( ) none of the mentioned
- (●) it can lead to some low priority process waiting indefinitely for the CPU ✓
- ( ) its scheduling takes up a lot of time

✓ 16. What is the Optimal page – replacement algorithm? 1/1

- ( ) None of the mentioned
- ( ) Replace the page that has not been used for a long time
- ( ) Replace the page that has been used for a long time
- (●) Replace the page that will not be used for a long time ✓

✓ 7. The FCFS algorithm is particularly troublesome for _____? 1/1

- operating systems
- (●) time sharing systems ✓
- multiprogramming systems
- multiprocessor systems

✗ 14. A page fault occurs when? 0/1

- a page gives inconsistent data
- a page is invisible
- a page cannot be accessed due to its absence from memory
- (●) all of the mentioned ✗

Correct answer

- (●) a page cannot be accessed due to its absence from memory

✓ 13. A swapper manipulates _____ whereas the pager is concerned with individual _____ of a process. 1/1

- the entire process, parts
- all the pages of a process, segments
- (●) the entire process, pages ✓
- none of the mentioned

✗ 10. Increasing the RAM of a computer typically improves performance because _____? 0/1

- ○ Fewer page faults occur
- ○ None of the mentioned
- ◉ Virtual memory increases ✗
- ○ Larger RAMs are faster

Correct answer

- ◉ Fewer page faults occur

✓ 5. Cascading termination refers to the termination of all child processes if the parent process terminates _____? 1/1

- ◉ Normally or abnormally ✓
- ○ Abnormally
- ○ None of the mentioned
- ○ Normally

✓ 4. What does OS X has? 1/1

- ○ microkernel
- ○ monolithic kernel with modules
- ○ monolithic kernel
- ◉ hybrid kernel ✓

✓ 3. If a process fails, most operating system write the error information to a _____? 1/1

- none of the mentioned
- new file
- another running process
- log file ✓