

Operating System Quiz (20-02-2026)

1. Name: *

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3. If a process moves from running to ready without completing, it is due to:

a) Termination

b) Preemption

c) I/O completion

d) Arrival

4. Degree of multi-programming is number of:

a) CPUs

b) Processes in ready queue

c) Processes in memory

- d) I/O devices

5. If response time equals waiting time, system is:

- a) Non-preemptive
- b) Preemptive
- c) Real-time
- d) Distributed

6. If burst time doubles, waiting time in FCFS generally:

- a) Decreases
- b) Increases
- c) Same
- d) Zero

7. If two processes have same priority, scheduling is decided by:

- a) Random
- b) FCFS
- c) SJF
- d) None

8. If arrival=1, completion=10, burst=5. Turnaround time? 

a) 8

b) 9

c) 10

d) 11

9. In multilevel queue scheduling, if process moves between queues, it is called: 

a) Static queue

b) Dynamic queue

c) Multilevel feedback queue

d) Round Robin

10. Which scheduling algorithm gives minimum average waiting time (theoretically)? 

a) FCFS

b) SJF

c) RR

d) Priority

11. P1(AT=0,BT=3), P2(AT=5,BT=4). CPU idle time is: 

a) 1 ms

b) 2 ms

c) 3 ms

d) 4 ms

12. In RR, time quantum is very large. It behaves like: 

a) SJF

b) FCFS

c) Priority

d) SRTF

13. If response time of a process is 5 ms and arrival time is 2 ms, what is its first start time? 

a) 3 ms

b) 5 ms

c) 7 ms

d) 8 ms

14. CPU utilization is 80% and idle time is 20 ms. What is total time? 

a) 80 ms

b) 100 ms

c) 120 ms

d) 160 ms

15. Round Robin scheduling with time quantum 4 ms. Process burst time is 10 ms. How many context switches occur? 

a) 1

b) 2

c) 3

d) 4

16. A process has 3 threads. If one thread crashes in user-level threading, what happens? 

a) Only that thread ends

b) Entire process crashes

c) OS recovers thread

d) Nothing

17. In a many-to-one threading model, if one thread blocks on I/O, what happens? 

a) Only that thread blocks

b) All threads block

c) OS creates new thread

18. In many-to-many model, 10 user threads mapped to 4 kernel threads. Maximum parallel execution possible is: 
- a) 4
 b) 6
 c) 10
 d) 14
19. In user-level threads, scheduling is done by: 
- a) Kernel
 b) Thread library
 c) CPU
 d) Compiler
20. If two threads access same variable without synchronization, problem is called: 
- a) Deadlock
 b) Race condition
 c) Starvation
 d) Thrashing

21. In multithreading, what is shared among threads: 

- a) Stack
- b) Registers
- c) Heap
- d) Program Counter
- Option 2

22. Context switching between threads is faster than between processes because: 

- a) Threads use different memory
- b) Threads share address space
- c) Threads use separate CPUs
- d) Threads have no state

23. A race condition occurs when: 

- a) Processes run very fast
- b) Two threads access shared data simultaneously
- c) CPU speed increases
- d) I/O devices fail

24. Which of the following is NOT shared among threads? 

a) Code section

b) Heap

c) Stack

d) Data section

25. Hyperthreading mainly improves: 

a) Disk speed

b) CPU utilization

c) RAM capacity

d) Network speed

26. Thread Control Block (TCB) stores: 

a) Thread state

b) Register values

c) Stack pointer

d) All of the above

27. Which model allows true parallelism on multi-core systems? 

a) Many-to-one

b) One-to-one

- c) Single-threaded
- d) Batch processing



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