

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

☐ d) Process terminates

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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