

1.Which scheduling algorithm executes processes strictly in the order of their arrival?

- SJF
- FCFS
- Priority Scheduling
- Round Robin

2.The Convoy Effect is most commonly associated with which scheduling algorithm?

- SJF
- FCFS
- HRRN
- Lottery Scheduling

3.In SJF scheduling, the CPU is allocated to the process with:

- Highest priority
- Longest burst time
- Smallest burst time
- Earliest deadline

4.The preemptive version of SJF is known as:

- Round Robin
- FCFS
- SRTF
- HRRN

5.Which scheduling algorithm may cause starvation of long processes?

- SJF
- FCFS
- Round Robin
- Lottery Scheduling

6.In Priority Scheduling, the CPU is assigned to the process with:

- Lowest arrival time
- Highest priority
- Longest burst time
- Smallest waiting time

7. Starvation in priority scheduling can be prevented using:

- Time Quantum
- Aging
- Preemption
- Throughput control

8. Round Robin scheduling is primarily designed for:

- Batch systems
- Real-time systems
- Time-sharing systems
- Embedded systems

9. In Round Robin scheduling, each process is executed for a fixed time called:

- Burst Time
- Waiting Time
- Turnaround Time
- Time Quantum

10. If the time quantum in Round Robin is very large, it behaves like:

- SJF
- Priority Scheduling
- FCFS
- HRRN

11. Which metric measures how long a process waits in the ready queue?

- Turnaround Time
- Waiting Time
- Response Time
- Throughput

12. Response Time is defined as:

- Completion time minus arrival time
- First time CPU is allocated minus arrival time

- Burst time minus waiting time
- Waiting time plus burst time

13.Throughput refers to:

- CPU idle time
- Number of processes completed per unit time
- Total burst time
- Context switch rate

14.SJF is considered optimal because it:

- Maximizes throughput
- Minimizes average waiting time
- Prevents starvation
- Maximizes CPU idle time

15.SRTF makes scheduling decisions when:

- A process completes
- A new process arrives
- Both A and B
- Only when CPU is idle

16.Multilevel Queue Scheduling divides processes based on:

- Burst time
- Arrival time
- Process category
- Waiting time

17.In Multilevel Queue Scheduling, processes:

- Can move between queues
- Cannot move between queues
- Always stay in highest queue
- Share equal priority

18.Multilevel Feedback Queue differs because it:

- Uses only FCFS
- Allows process movement between queues
- Does not use time quantum
- Ignores priorities

19.In MLFQ, if a process uses too much CPU time, it is:

- Terminated
- Promoted
- Demoted to lower-priority queue
- Given higher priority

20.HRRN stands for:

- High Response Ready Node
- Highest Response Ratio Next
- High Remaining Runtime Node
- Hybrid Round Robin Network

21.The response ratio in HRRN is calculated as:

- W/S
- S/W
- $(W+S)/S$
- W-S

22.HRRN scheduling is:

- Preemptive
- Non-preemptive
- Real-time
- Deadline-based

23.Lottery Scheduling selects a process based on:

- Arrival time
- Priority value
- Random ticket selection
- Burst time

24.In Lottery Scheduling, more tickets mean:

- Less chance of execution
- Equal chance
- Higher probability of execution
- Immediate execution

25.Which scheduling algorithm is probabilistic in nature?

- SJF
- FCFS
- Lottery Scheduling
- HRRN

26.CPU utilization aims to:

- Increase waiting time
- Keep CPU as busy as possible
- Reduce throughput
- Increase idle time

27.Turnaround Time is calculated as:

- Completion Time - Arrival Time
- Burst Time - Waiting Time
- Waiting Time - Burst Time
- Arrival Time - Completion Time

28.Waiting Time is equal to:

- Turnaround Time - Burst Time
- Burst Time - Turnaround Time
- Completion Time - Burst Time
- Arrival Time - Burst Time

29.Which algorithm combines FCFS with preemption?

- Round Robin
- SJF
- HRRN
- Lottery Scheduling

30.The main disadvantage of SRTF is:

- [ ] High CPU utilization
- [x] Starvation of long processes
- [ ] No context switching
- [ ] No preemption