Consider the following set of processes, with the length of the $\ensuremath{\mathrm{CPU}}$ burst given in milliseconds.

Process	Burst Time	Arrival	Priority*
P1	10	0	3
P2	1	1	1
P3	2	4	3
P4	1	5	4
P5	5	5	2
*.	Lower number m	eans higher prid	ority

The following Gantt chart shows the order in which these processes are executed:

	P1	P2	P1	P1	P3	P1	P4	P5	P3	P1	P5	P1	P5	P1	P5	P1	P5	P1	P1
)																			19

What is the response time of P5?

ledow	2	ms.

5 ms.

7 ms.

17 ms.

Consider the following set of processes, with the length of the CPU burst given in milliseconds.

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	P1	P2	P1	P1	P3	P1	P4	P5	P3	P1	P5	P1	P5	P1	P5	P1	P5	P1	P1
0																			11

Given the following scheduling algorithms, identify which of the following scheduling algorithms is being utilized.

\bigcirc	Shortest-Remaining-Time-First.

Round Robin with time quantum=1.

Round Robin with time quantum=2.

O Preemptive Priority Scheduling.

Student Name: *

OL - J - F - L - J Al - L - Al - d

*
A Multilevel Queue scheduling algorithm partitions processes into foreground processes queue and background processes queue. Foreground queue has absolute priority over background queue. Which of the following cases occurs if a foreground process arrived the ready queue while the background process was running?
The current background process continues the execution till termination.
The current background process would be preempted.
The current background process would be terminated immediately.
None of the above.

	Aging can be a solution to the problem of indefinite blockage of low-priori processes.
•	True
0	False
*	
	Which of the following scheduling algorithms is the most suitable for time naring systems?
0	Shortest-Job-First scheduling.
0	Shortest-Remaining-Time-First scheduling.
	Round-Robin scheduling.
•	· ·

_	
0	False
*	
In	which of the following cases non – preemptive scheduling occurs?
•	When a process goes from the running state to the waiting state.
\bigcirc	When a process switches from the running state to the ready state.
\bigcirc	When a process switches from the waiting state to the ready state.
0	All mentioned above.
*	
	symmetric multiprocessing, all system activities are handled by a single occssor – the master server.
0	True
•	False

*	
ex bl	ssume the system makes a context switch between process P_0 and P_1 . Poxecutes before P_1 , and PCB_0 and PCB_1 are respectively their process control lock. Which of the following time units are included in the dispatch stency?
0	P0 executing.
•	Save state into PCB0 and restore state from PCB1.
0	P1 executing.
0	All of the above.
*	
	he convoy effect occurs in First-Come-First-Serve scheduling when a process ith a long CPU burst occupies the CPU.
•	True
0	False

Burst Time	Arrival	Priority*
10	0	3
1	1	1
2	4	3
1	5	4
5	5	2

The following Gantt chart shows the order in which these processes are executed:

D4	DA	D4	Di	D2	D4	D.4	D.F	D2	Di	D.F	Di	D.F	Di	D.F	Di	D.F	D4	D4
P1	PZ	PI	PI	P3	PI	P4	PS	P3	PI	PS	PI	PS	PI	PS	PI	PS	PI	PI
0																		4.0

What is the response time of P5?

2 ms.

○ 5 ms.

7 ms.

17 ms.

In Round-Robin scheduling, the time quantum should be small with respect to the context-switch time.

○ True

False