

GATE 2005

We wish to schedule three processes P1, P2 and P3 on a uniprocessor system. The priorities, CPU time requirements and arrival times of the processes are as shown below.

Process	Priority	CPU Time Required	Arrival Time (hh : mm : ss)
P1	10 (highest)	20 sec	00:00:05
P2	9	10 sec	00:00:03
P3	8 (lowest)	15 sec	00:00:00

We have a choice of preemptive or nonpreemptive scheduling. In preemptive scheduling, a late-arriving higher priority process can preempt a currently running process with lower priority. In non-preemptive scheduling, a latearriving higher priority process must wait for the currently executing process to complete before it can be scheduled on the processor. What are the turnaround times (time from arrival till completion) of P2 using preemptive and nonpreemptive scheduling respectively?

- (a) 30 sec, 30 sec
- (b) 30 sec, 10 sec
- (c) 42 sec, 42 sec
- (d) 30 sec, 42 sec

Related Posts:

1. GATE CS 2020 CPU Scheduling PYQ
2. GATE CPU scheduling PYQ
3. GATE 1996 CPU Scheduling algo completion time RR
4. GATE 2006 CPU scheduling PYQ
5. GATE 2004 CPU scheduling PYQ

6. GATE CPU scheduling PYQ
7. GATE 2017 Bankers algorithm Dead lock PYQ
8. GATE 2014 DEADLOCK BAKERS ALGO PYQ
9. GATE 2015 DEADLOCK BANKERS ALGO PYQ
10. GATE Bankers Algorithms
11. Develop a Gantt Chart, Average Waiting time, FCFS, SJF, RR
12. OS#08 | Contiguous and linked list allocation for implementing file system in Hindi video | RGPV previous years