

BCA119

BCA IV Mid-Semester Examination (2020-21)

Paper I <Operating System >

Time: 90 minutes

MM: 20

Attempt all questions. All questions carries equal marks.

1. What is operating system? What are functions of operating system?
2. Write a brief note on different operating system structures.
3. What do you mean by PCB? Where is it used? What are its contents? Explain?
4. Describe process states with the help of process transition diagram.
- 5.

Consider the following process scenario:

Process id	Arrival time (in nsec)	Burst time (in nsec)
P <sub>0</sub>	0	6
P <sub>1</sub>	0	3
P <sub>2</sub>	1	4
P <sub>3</sub>	2	2
P <sub>4</sub>	3	1

The average waiting time of the processes, when the Shortest Job First algorithm is used for process execution is \_\_\_\_\_nsec.





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