

School of Information Technology and Engineering

Winter Semester 2022-2023 - Fresher

**Digital Assignment-I**

Programme Name & Branch : MCA

Course Name & code: Distributed Operating Systems & ITA5006

Class Number (s): VL2022230500524

Slot: B2

Faculty Name (s) Dr.T.Senthil Kumar

Maximum Marks:20

General instruction(s): Answer ALL Questions.

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| **Q.No.** | **Question** | **Max Marks** | **CO** | **BL** |
| 1. | Consider the following process with the CPU burst time given in milliseconds   |  |  |  | | --- | --- | --- | | Process | Burst time | Priority | | P1 | 4 | 2 | | P2 | 2 | 1 | | P3 | 8 | 3 | | P4 | 2 | 4 | | P5 | 5 | 2 |   Processes are arrived in P1,P2,P3,P4,P5 order of all at time 0Msec,Draw Gantt charts to show execution using FCFS, SJF, Priority and RR (Quantum=2ms) Scheduling. Also calculate the Avg. waiting time and Turnaround time of each of scheduling algorithm. | 10 | CO1 | BL4 |
| 2. | Consider the following process with the CPU burst time given in milliseconds   |  |  |  | | --- | --- | --- | | Process | Arrival Time | Burst Time | | P1 | 0 | 12 | | P2 | 1 | 8 | | P3 | 2 | 10 | | P4 | 3 | 4 |   Draw Gantt charts to show execution using FCFS, SRT, and RR (Quantum=2ms) Scheduling. Also calculate the Avg.waiting time and Turnaround time of each of scheduling algorithm. | 10 | CO1 | BL4 |