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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, March/April - 2022 OPERATING SYSTEMS

Time: 3 Hours Max.Marks:75

Answer any five questions All questions carry equal marks

Explain in detail about multiprogrammed, time-shared and real time systems in details.

[15]

Discuss about various process and file handling utilities.

[15]

 Find out average waiting time for given data using SJF and round robin (time quantum: 2units) scheduling algorithm: [15]

Process ID	Arrival time	Burst time
P01	0	5
P02	2	3
P03	4	2
P04	5.	6
P05	6	4

What is a deadlock? How can it be detected and recovered? [15]

How semaphores can be for process synchronization ? [15]

 Explain IPC between processes on different systems using message queues and shared memory. [15]

 Simulate page replacement algorithms on following reference strings: [15] 1,2,3,2,1,2,3,4,5,6,5,4,3,5

Explain various file allocation and access methods. [15]

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