IAT1 Question Bank

Class-SE(A&B) Subject -OS

Q.1.-Explain Process State Model

Q.2.Explain 'Operating System' with diagram

Q.3.Explain Dinning Philosopher Problem

Q.4.Explain in detail 'Semaphore

Q.5 Consider the following set of processes with their arrival time and their burst time expressed in milliseconds as shown in Table 1. Construct a Gantt chart and compute average waiting time and average turnaround time by applying the following scheduling algorithms.**a) SJF and b) Round robin (time quantum=2 ms) c)FCFS.**

Process	Priority	Arrival Time	Burst Time
P1	2	0	4
P2	1	1	7
P3	3	2	2
P4	2	3	3

Table 1

Q.6. Practice all example solved in classroom and homework on 'Process scheduling' concept

Q.7.Explain in detail Peterson's solution.

Q.8 What is critical section problem , what are necessary condition for its solution

Q.9. Define with example- race condition and turnaround time.

Q.10.Explain concept of Context switching with all steps involved

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