

Operating System Concept

Review Sheet for Mid-Term I.

Part 1.

Interrupts,

Direct memory access (DMA).

Multiprogramming,

Time Sharing,

Operating System Services,

System calls

API's

Difference between System calls and system programs.

What is a process?

What kinds of resources a process has?

What is a thread, what kinds of resources they have?

Multithreading, why we need it? Benefits of multithreading

How a thread can be canceled?

What is a thread pooling? The benefits of thread pools,

Part 2.

The states of processes, and the transactions between them,

The state of a thread.

Process control Block (process table)

Possible ways to create a process,

Possible ways to cancel a process,

Methods for intersperses communication

Part 3.

When we need to schedule

CPU burst cycle, I/O burst cycle,

Different between short term scheduling and long term scheduling,

Preemptive and no preemptive algorithms

Starvation

Aging

Scheduling criteria;

Scheduling algorithms

FCFS,

Shortest job first (SJF)

Priority Scheduling

Round-Robin Scheduling;

Part 4.

I will give you a set of processes, I will ask you to schedule this processes by using a specific algorithm (I will give you what algorithm you have to use) , and you also have to

find out some criteria about the processes, such as waiting time, response time, turnaround time