CS3.301: Operating Systems and Networks

IIIT Hyderabad

Quiz 1

1. What is the CPU activity when no user/system programs are running?
2. In earlier operating systems, there was no mode bit. Explain how the mode bit has enhanced the protection in modern operating systems.
3. List the problems of "Multiprogramming".
4. List the problems encountered by operating system designers due to spooling.
5. The operating system is also called a "Control Program". Justify.
6. What is the objective of "time-sharing"? Why can the same objective not be realized through multiprogramming?
7. What do you understand with the term "Non-Uniform Memory Access"?
8. In which circumstances is DMA favoured over interrupt-driven data transfer?
9. Explain the notion of "graceful degradation".
10. Operating System is called a "Resident Program" (the program that always stays in memory). Justify.
11. An operating system is called a "Resource allocator". Justify.