

ST.JOSEPH'S INSTITUTE OF TECHNOLOGY

CS6401-OPERATING SYSTEM

Assignment – 1

Part – A

1. What is the purpose of interrupts? How does an interrupt differ from a trap? Can traps be generated intentionally by a user program? If so, for what purpose?
2. What are the three main purposes of an operating system?
3. Define multiprocessor system and give down the advantages of Multiprocessor Systems?
4. What is system boot?
5. Define system call? What is the purpose of system calls?
6. What is cache coherency?
7. How does the distinction between kernel mode and user mode function as a rudimentary form of protection (security) system?
8. Define Symmetric and asymmetric multiprocessing?

Part – B

1. i) How could a system be designed to allow a choice of operating systems from which to boot? What would the boot strap program need to do?
ii) How do clustered systems differ from multiprocessor systems? What is required for two machines belonging to a cluster to cooperate to provide a highly available service?
2. Explain about Multiprocessor systems and distributed systems.
3. i) List and explain the classification of system calls and its significance
ii) Explain about system call implementation with parameter passing methods.
4. Briefly explain the operating system structure and various operations of operating system.