

Operating System- MTL458

Minor Test 1

Date: 30-07-16, Time: 1 hour, Total Marks: 20

Note: Attempt any four questions. All questions carry equal marks.

1. ✓ Show a layout for a program image in main memory and discuss its several distinct sections.
2. ✓ Explain how a disk I/O request might allow the operating system to run another process.
3. ✓ Illustrate the steps performed by an OS to create a new process. What common events lead to the creation of a process?
4. Show the traces of three processes and illustrate interleaved execution (with instruction cycles, I/O, context switch, etc.) of these processes performed by the processor.
5. Design a C program and show how a C library intercepts a function/statement call along with invoking necessary system call in the Linux OS. ✗

