SHRI G.S. INSTITUTE OF TECHNOLOGY & SCIENCE

Department of Computer Engineering C02 : Operating system Lab Assignment–I

The goal of the give a basic introduction of Operating System and Shell

The/proc file system is a mechanism provided by Linux for the kernel to report information about the system and processes to users. The/proc file system is nicely documented in the proc man page. You can access this document by running the command man proc on a Linux system. Understand the system-wide proc files such asmeminfoandcpuinfo, and per-processfiles such as status, stat, limits, maps and so on.

Now answer the following questions using the/proc filesystem.

(a) Run command more /proc/cpuinfo and explain the following

terms:processor and cores. [Hint: Uselscputo verify your definitions.]

- (b) How many cores does your machine have?
- (c) How many processors does your machine have?
- (d) What is the frequency of each processor?
- (e) How much physical memory does your system have?
- (f) How much of this memory is free?
- (g) What is total number of number of forks since the boot in the system?
- (h) How many context switches has the system performed since bootup?