

CS3510: OPERATING SYSTEMS-I

Theory Assignment - 1

Chapter: 1

Submission Date: 09 December 2020, 21:00 Hrs

- 1) **(10 points)** How does the distinction between kernel mode and user mode function as a rudimentary form of protection (security)?
- 2) **(4*2=8 points)** Which of the following instructions should be privileged?
 - a. Set value of timer
 - b. Read the clock.
 - c. Clear memory.
 - d. Issue a trap instruction.
- 3) **(10 points)** Some early computers protected the operating system by placing it in a memory partition that could not be modified by either the user job or the operating system itself. Describe two difficulties that you think could arise with such a scheme.