Operating System and System Administration

1) Briefly explain the following terms in relation to the computer system.

   a) Level 01 Cache

   b) Register

   c) RAM

2) Compare and contrast the GUI and CLI based operating system.

3) What are the three main purposes of an Operating System?

4) What is multiprogramming? What is the main advantage of multiprogramming?

5) What is time-sharing? What is the main advantage of time-shared system?

6) Briefly explain dual mode operation and how does it provide the protection to the system.

7) Compare and contrast system call and system program.

8) Briefly explain the protection mechanism for each.

Protection Area	Protection mechanism
I/O Protection	
Memory Protection	
CPU protection	

9)

10) Which of the following instructions should be privileged?

   a) Set value of timer

   b) Read the clock

   c) Clear memory

   d) Turn-off interrupts

   e) Modifying base and limit registers