

# 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) 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