eDAC – Operating System Concepts with Linux

1. What is an OS? What are its important functions?
2. What is system call? How it is executed?
3. Explain terms: Multi-programming, Multi-tasking, Multi-threading, Multi-processing and Mutli-user?
4. Explain Linux kernel design (monolithic or modular).
5. Explain process life cycle.
6. What is difference between process and thread? How can you create them in Linux program?
7. What is a file? Which system calls are used to manipulate files in Linux? Write their prototypes and explain.
8. What is difference between starvation and deadlock?
9. How vfork() system call works? What is copy-on-write?
10. Explain OS booting. Explain Linux booting.
11. Explain regex commands and wildcard characters.
12. How security is implemented in Linux file systems? Tell commands related to it.
13. How redirection and pipe in Linux commands work?
14. What is a filesystem and its structure?
15. What is a logical block size and physical block size in a filesystem?