

UNIT III QUESTION BANK

1. Explain features of Linux with respect to Embedded Operating System.
2. Write short note on :
 - a) LSB
 - b) OSDL
 - c) MLI
 - d) vmlinux
 - e) Do-It-Yourself Linux Distribution
 - f) Embedded Linux Distribution
 - g) Cross Development Environment
3. What is OSDL & Explain OSDL Linux Initiative.
4. What do you mean by Linux kernel construction?
5. What are the steps involved in Linux kernel configuration and compilation?
6. Explain block diagram of embedded system.
7. Explain concept on Linux Source Tree.
8. How embedded system is configured with Linux kernel?
9. What is toolchain? How toolchain is useful for creating kernel image on cross development environment?
10. Explain following terms : gdb,gcc,GNU Make command, glibc
11. Explain various steps involved in booting the Kernel on Embedded Target system.
12. What is the importance of .config file while creating kernel? What are the attributes available in .config file?
13. What do you mean by Uboot bootloader? How Uboot is compiled and configured?
14. How BIOS differs from bootloader? How booting process in PC and Embedded devices is different?
15. Write short note on :
 - a) Init process
 - b) Kernel initialization
 - c) Initialization flow of control and various important files associated in it.
 - d) Command line processing of kernel
 - e) Init thread
 - f) Linux execution context in embedded environment
16. Which are the various flash memory devices available for embedded environment? Explain in detail.

17. Differentiate between NAND and NOR flash memory.
18. What do you mean by busybox?
19. Explain Anatomy of Embedded system
20. Explain Boot process in detail
21. How kernel Build system works
22. Why Busy Box is easy
23. How subsystem Initialization works
24. How storage consideration & Memory management works in embedded system
25. How kernel command line processing done under embedded system

UNDERSTAND!!! IMPLEMENT!!! ANALYZE!!!