UNIT IV QUESTION BANK

1 What are various challenges for bootloaders in embedded system?

2 What is U-boot bootloader? What are the steps used for configuring and compiling UBoot?

3 Explain in detail architecture of device driver.

4 What is bootloader? Explain role and importance of bootloader.

5 What is device driver? Which are various types of device drivers available? Explain them in brief.

6 How device driver interacts with kernel?

7 Write short note on : LILO, UBoot, GRUB, open source bootloader

8 Explain with example character device driver structure.

9 Explain various utilities/commands available in Linux for managing device drivers.

10 Write short note on :

PCI Device Driver

PCI interfacing

PCI Subsystem

Device Tree and its structure

11 What is the need of file system? Explain Linux File System.

12 Write short note on : Ext2, Ext3, Ext4, ReiserFS, JFFS,Pseudo (/proc) File System

13 Explain Network File System and its configuration in embedded environment.

14 Explain MTD subsystem in detail along with block diagram.

15 How cross development environment is used for hosting the target embedded board?

16 Explain configuration of DHCP and TFTP on host Linux machine.

17 What are the requirements for host machine?

18 Explain Drivers methods in detail.

19 Describe Flat Device Tree.(DTB)

20 Write short note on Device Driver Module Utilities

21 Illustrate JFFS2 root file system.

22 Explain ext2 file system in detail.

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