Quiz Questions – Embedded Linux

Lecture 4:

Question 1 – “Which of these components are required for an embedded Linux system?”

1. Bootloader
2. Linux kernel
3. Device tree blob
4. Root file system
5. **All of the above**

Question 2 – “Which of the following are the typical workflow for an embedded system?”

1. Root file system is prepared > Bootloader source code is procured > Linux Kernel source code is procured > System programs source code is procured
2. Bootloader source code is procured > Root file system is prepared > Linux Kernel source code is procured > System programs source code is procured
3. **Bootloader source code is procured > Linux Kernel source code is procured > System programs source code is procured > Root file system is prepared**
4. Bootloader source code is procured > Linux Kernel source code is procured > Root file system is prepared > System programs source code is procured

Question 3 – “What is the purpose of a build system?”

1. **The automation of configuring and compiling multiple sources of code to build a system or piece of software**
2. To build the hardware for an embedded device
3. A guide for a developer to build an embedded Linux system

Question 4 – “What is the “Yocto Project”?”

1. **A collaboration of multiple projects related to the building and configuration of custom embedded Linux distributions.**
2. A custom embedded Linux distribution
3. A toolchain for cross-compiling source code
4. A library for building Linux systems

Question 5 – “What is the “build/conf/bblayers.conf” file used for?”

1. A script that generates a custom Linux image
2. Overriding the default configuration and defining what to build
3. **Determining which BitBake layers to be used during build the process**
4. Defining the distribution policy of the distro

Question 6 – “What is the “build/conf/local.conf” file used for?”

1. **Overriding the default configuration and defining what to build**
2. Determining which BitBake layers to be used during the build process
3. A script that generates a custom Linux image
4. Configuration of the board support package