Quiz Questions – Embedded Linux

Lecture 3:

Question 1 – “Which of these components are found in the user space of a Linux architecture?”

1. **Application**
2. Kernel
3. **System Programs**
4. Board Support Package (BSP)

Question 2 – “Which of these components are found in the kernel space of a Linux architecture?”

1. GNU C Library (glibc)
2. **System Call Interface**
3. **Kernel**
4. System Programs

Question 3 – “What are the main functions of the ‘process scheduler’?”

1. **Implement CPU scheduling policy and context switch**
2. **Managing the hardware timer**
3. Handling the address space
4. Mapping files into an area of virtual memory

Question 4 – “What are the main functions of the ‘memory manager’?”

1. **Ensures processes have fair access to the memory resources**
2. **Allowing processes to share some portion of their memory**
3. **Enabling processes to map files into an area of virtual memory**
4. Enforcing policies to not lose or corrupt data

Question 5 – “What is the ‘Virtual File-System’ responsible for?”

1. Implementing network protocols through hardware-independent code
2. Cleaning up process resources when a process finishes executing
3. **Providing uniform access to hardware devices**
4. **Enforcing policies to grant access to files only to allowed users**

Question 6 – “Which of the following is not provided by inter-process communication?”

1. Resource sharing
2. **System programs access**
3. Synchronization
4. Data exchange

Question 7 – “Which stages of the booting process does U-Boot handle?”

1. **U-Boot is a first and second stage bootloader**
2. U-Boot is just a first stage bootloader
3. U-Boot is just a second stage bootloader
4. U-Boot is not related to the booting process