

Data communications, spring 2007. 2. test. 22.3.2007 at 10:00-12:00 E26-27.

1. What is an embedded system? What does an embedded system consists of? How DSP technique is related to the embedded systems? Where embedded systems are going to be used? Explain typical features (characteristics) of embedded systems. (7p)

2. Why DSL techniques have been developed? What different kind of DSL techniques do exist? Describe briefly each of them. (6p)

3. What WLAN, Bluetooth, UWB and ZigBee are? How do they differ from each other and how do they work? (7p)

4.
a) What quantum computers are? How do they work and how do they differ from the traditional computers? (3½p)
b) Write everything you know and understand about 4G (What does it mean? What kind of concept it is probably going to be and what is the main idea of 4G? What kind of timetable (schedule) is planned for 4G? What kind of technical solutions are probably used in 4G?). (3½p)

You can use pencil, rubber, ruler and student card.