

1. Draw schema of von Neumann and Harvard computer architecture. Explain principles, how computer work (defined by von Neumann). Explain advantages and disadvantages of von Neumann architecture. (12)

2. Describe common construction features of RISC processors. Describe how that features improved processors performace. (12)

3. What is dynamic memory? Draw and explain memory cell realization. Explain organization of cells on the chip. Shortly describe differences between types of dynamic memories and their evolution. (11)

4. Draw and explain operation principles of OLED display. Describe advantages and disadvantages of that technology. (10)

5. Draw and describe typical peripherals of monolithic computers. (10)