Don't write your answers on this paper. Use only papers delivered in exam!

1. Explain shortly the following terms / acronyms:
   a. Dynamic web page
   b. Variable
   c. Debugging
   d. ALU

   (8 points)

2. How does computer work? Create a drawing which shows the structure of basic computer hardware. Describe each element and its main tasks shortly.

   (6 points)

3. How does the Internet work? Explain how a message is transmitted in a packet-switching network. What kinds of protocols are involved? You can also draw a picture if it helps.

   (6 points)

4. Programming. What is an algorithm? How can you find the oldest person in a room full of people? Describe two different algorithms and compare them to each other.

   (6 points)

5. Computers and society. Introduce potential problems with the ever-growing technology use in our society.

   (6 points)