

HUT/Laboratory of Media Technology

AS-75.120 Basics of Media Technology 1

Exam 20.4.2004

Write to all answer papers:

- 1. The name and the code of the course**
- 2. Date**
- 3. Your name**
- 4. Your student number**

1. Define these concepts briefly: 6p.
 - a. short-term memory
 - b. the community view of mass communication
 - c. DVB
 - d. web service
 - e. bitmap
 - f. MHP
2. How will the new changes in media technology affect mass communication? 6p.
3. Describe the steps of JPEG-coding? 6p.
4. What does the semantic web mean? Which advantages it has, when compared to traditional Internet? 6p.
5. According to Nyquist theorem (sampling theorem) the sampling rate must be equal to, or greater than, twice the highest frequency component in the signal. Why? What happens if this condition is not fulfilled? Clarify your answer with a picture. 6p.
6. Describe the communication chain of digital television, resting on the communication model by Shannon & Weaver. How are the different technologies of digital television settled in the model? 6p.