

Midterm exam Cognitive Psychology 2004/2005

28 october 2004, 9-11

Questions are in English but please answer in Dutch if that is your first language.

1. Describe the most important argument in favor of the existence of a general factor of (psychometric) intelligence.
2. Mention two control variables that were used in the XTC research. What is the use of measuring such control variables?
3. According to V. Lamme, which mechanism implements (visual) attention? Which evidence is provided for the existence of that mechanism.
4. Explain how binocular disparity provides information important to depth perception.
5. The Linsker self-organizing perceptual network uses a so-called Hebb rule for learning and random inputs. Explain the importance of these characteristics of the network as a model of the development of the human/animal visual system.
6. What is the hypothesis that Cowan et al. want to test in their article on short-term memory? Explain what the main difficulty is in testing that hypothesis and what their solution is.
7. Describe two problems in measuring the capacity and duration of long-term memory.
8. The levels-of-processing framework is presented as an alternative to the traditional three stores model of memory. Which levels do Craik & Lockhart specify and what is the main thrust of this theory?
9. Describe an experiment that is used to study how subjects encode information in long- and/or short-term memory.
10. Explain why the generation and recognition tasks are used in the implicit learning experiment of Destrebecqz & Cleeremans, that is, what is the reason of using those tasks?