

EXAMINATION FOR THE COURSE:

NEVR3003 - Behavioural and Cognitive Neuroscience

Contact person during the examination: Tor Kirkesola

Phone: 73 55 06 47 / 93832310

Examination date: 16 March 2012 Examination time: 9 am. – 1 pm.

ECTS-credits: 7.5

Supporting materials: Dictionary

Standardized language dictionaries (e.g. Norwegian-English/English-Norwegian) can be used, but NOT specialty dictionaries such as medical dictionaries. The dictionaries will be inspected by the invigilator before the start of the examination.

Language of examination: English

Number of pages: 2 (including front page).

Examination results will be made available on Studentweb within the end of: 11 April 2012.

NEVR3003 2012 exam Friday 16.03.2012 09.00-13.00 (4 hours)

All 8 assignments are to be answered. Dictionaries allowed (subject specific dictionaries not allowed). No digital aids allowed.

- 1. Describe key aspects of thalamic cellular organization and how this relates to thalamic function
- 2. Compare and contrast excitatory and inhibitory components of cortical processing
- 3. What are neural oscillations, and how may they contribute to neural processing?
- 4. How is movement represented in motor cortex?
- 5. Sharp wave ripples: where and when do they occur, and what is their proposed function?
- 6. What information about the environment is represented in the entorhinal cortex and is this information necessary for spatial representation in the hippocampus?
- 7. How do vasopressin and oxytocin regulate pair bonding in Prairie- and Meadow Voles?
- 8. How are visual inputs integrated into a single experience?