

1. MEG/EEG signals
  - ~~a.~~ explain the neurophysiological basis of MEG/EEG signals (3p)
  - b. discuss the factors that affect the amplitude of MEG signals at the sensors (3p)
- ~~2.~~ Describe the physiological basis of BOLD fMRI (6p)
3. Compare and give examples of appropriate use of
  - ~~a.~~ Block design vs. event-related experimental design (3p)
  - b. Categorical vs. parametric experimental design (3p)
- ~~4.~~ Define (by few sentences)
  - ~~a.~~ Equivalent Current Dipole (ECD) in MEG/EEG source modeling (1p)
  - ~~b.~~ Larmor frequency (1p)
  - ~~c.~~ Gradiometer (1p)
- ~~5.~~ Explain field spread and its effect on functional connectivity estimation in MEG (3p)