

**University of Nottingham**  
School of Psychology  
Winter Exam 2008/2009  
C83EBM Electrophysiological and Behavioural Methods

**Time allowed two hours**

**Candidates must NOT start writing until told to do so.**

**ANSWER TWO QUESTIONS:**

1) ...

2) What are the conditions for a neural process to be recordable as an event-related potential (ERP) on the scalp? Outline the signal processing steps that are needed to recover ERPs from the raw EEG signal and discuss the underlying assumptions.

3) ...

4) Compare and contrast effects of TMS to motor, somatosensory, and visual cortex. Give examples that illustrate how such TMS effects are relevant to cognitive neuroscience.