

UNIVERSITY OF LONDON
MSc NEUROSCIENCE EXAMINATION
INSTITUTE OF PSYCHIATRY
King's College London
4th March 2013 at 13.30-16.00pm
Cognitive Neuroscience
B7 WRITTEN EXAMINATION

Answer FOUR questions only

1. Which brain areas are associated with timing functions?
2. What is attention and what are the main neural networks associated with attention?
3. What is working memory and which brain area are associated with its sub-components (as in Baddeley and Hitch model)?
4. Which cognitive tasks show the strongest sex differences? Do men and women show differential brain activity while performing these tasks?
5. Define cognitive psychopharmacology and provide two examples from neuroscience where it has had a significant impact.
6. Discuss the evidence that suggests impulsivity plays a crucial role in drug addiction.
7. Describe the concept of "theory of mind" and the experimental challenges related to its assessment.
8. Describe the main methods for investigating genetic effects on cognitive and brain functions. Critically evaluate selected findings obtained using each of the methods.