

**KING'S COLLEGE LONDON**  
**INSTITUTE OF PSYCHIATRY, PSYCHOLOGY AND NEUROSCIENCE**  
**MSc NEUROSCIENCE EXAMINATION**  
**16<sup>th</sup> March 2015 at 14.00-16.30pm**  
**Brain Connectivity and Tractography**  
**B6 WRITTEN EXAMINATION**

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Answer **FOUR** questions only

1. Explain the methods for studying white matter connections.
2. Explain the criteria used to subdivide the lobes of the human brain.
3. Describe the anatomy and function of the major tracts of the visual system.
4. How did tractography contribute to our understanding of the networks underlying language?
5. What are the most recent advances in our understanding of the connectional anatomy of the frontal lobes?
6. Describe the principles of diffusion tensor imaging tractography and its main advantages and limitations?
7. Discuss the lateralization of networks underlying language and visuospatial attention.
8. Describe modern appraisals of the limbic networks in the context of functional and tractography neuroimaging studies?