

Stefan's Neuroimaging Section

- 80 Revision Questions

Jacqueline's Neural Basis of Memory Section

- 60 Revision Questions

Olivia's Neuropharmacology Section

- 90 Revision Questions

Patrick's Genetic's Section

- 70 Revision Questions

**TMS Methods and Research**

1. How is TMS applied?
2. What occurs at the neuronal level during TMS application?
3. What role did Barker, Jalinous and Freestone play in TMS imaging?
4. Why use of a 'figure-eight' coil?
5. What does TMS 'neural noise approach' achieve'?
6. How did Amassian's study (1989) employ the 'neural noise approach' and what were implications of findings/conclusions?
7. How did Amassian's study (1993) employ the 'neural noise approach' and what were implications of findings/conclusions?
8. How did Fitzgerald et al.'s study (2003) employ the 'paired pulse approach' and what were implications of findings/conclusions?
9. What does 'virtual lesion' (r) TMS approach' achieve'?
10. What does TMS 'probing excitability approach' achieve'?
11. What are 'motor-evoked potentials' (MEPs)?
12. What were the findings/conclusions of Eisenegger et al. (2007) TMS Study?
13. What were the findings/conclusions of Bode et al. (2007) TMS Study?
14. What does TMS 'paired pulse approach' achieve'?

15. Outline an example of clinical application of TMS

### **Alzheimer's Disease**

1. Describe aetiology of Alzheimer's' Disease (AD)
2. What is the prevalence of AD?
3. What are the clinical features of phase one AD?
4. What are the clinical features of phase two AD?
5. What are the clinical features of phase three AD?
6. Describe pathological features of the AD brain
7. What are 'senile plaques' and neurofibrillary' tangles?
8. Describe the course of neuropathological changes
9. What is McKhann et al.'s criteria for 'probable AD'?
10. What is McKhann et al.'s criteria for 'possible AD'?
11. What is McKhann et al.'s criteria for 'definite AD'?
12. Describe the pattern of amnesic presentations of cognitive impairment
13. Treatment for AD?
14. What differentiates AD from normal aging?
15. What features did MK exhibit in her follow-up assessment that led to an AD diagnosis?

### **Introduction to Psychopharmacology**

1. Outline 'Iron Channel' receptor and sequence
2. Outline 'G-protein coupled' receptor and sequence
3. What does 'receptor specificity' refer to?
4. Outline 'action-potential' process?
5. What differentiates 'neurotransmitters' and 'neuromodulators'?
6. How may neurotransmission be understood as 'currency'?