

OLLSCOIL NA hÉIREANN
COLÁISTE NA hOLLSCOILLE, GAILLIMH

SUMMER EXAMINATION, 2000

M.Sc. NEUROPHARMACOLOGY

NEUROPHARMACOLOGY III (PM 502)

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Dr. J.P. Kelly
Professor I. Campbell

Time allowed: **THREE** hours.

Please attempt **FIVE** questions.

1. What are biological markers? Discuss with examples the value of biological markers to the understanding of psychiatric illness.
2. Write an essay on the validity of animal models of a CNS disorder that you have studied.
3. Discuss the mechanism of excitotoxicity. How can knowledge of this process be used to develop drugs to treat CNS diseases, such as stroke?
4. What are the principal neurochemical changes and therapeutic strategies associated with either Alzheimer's disease OR Parkinson's disease?
5. "Psychiatric diseases can be explained by abnormalities in central monoaminergic neurotransmission". Comment on this statement, illustrating your answer with particular reference to a psychiatric disorder of your choice.
6. Discuss the mode of action, clinical uses and side effects of the benzodiazepines.
7. Write an essay on how molecular biological technology can be useful in neuropharmacological research. Illustrate your answer with examples.
8. Write an essay on recent methodological advances in measuring pharmacological responses in laboratory animals.