

NATIONAL UNIVERSITY OF IRELAND GALWAY

THIRD MEDICAL EXAMINATION 1998

PHARMACOLOGY

PART II REPEAT

Professor K. Park

Professor B.E. Leonard

Dr. J. O'Donnell

Time allowed: THREE HOURS

ATTEMPT FIVE QUESTIONS - AT LEAST TWO QUESTIONS MUST BE  
ATTEMPTED FROM EACH SECTION.

Please use SEPARATE answer books for each Section

### SECTION A

1. Write an essay on the pharmacological treatment of Parkinsonism
2. Write notes on the pharmacological properties, therapeutic uses and main side effects of the following:
  - a) amitriptyline
  - b) lithium.
3. Comment on the pharmacological treatment of diabetes mellitus.

4. Write an essay on the role of releasing factors in the control of adrenocorticotrophic hormone (ACTH), growth hormone and prolactin. Comment on the effects of dopamine receptor agonists and antagonists on prolactin release.

### SECTION B

5. What do you understand by the terms: tolerance, dependence, withdrawal effects as applied to drugs of abuse? What are the main pharmacological properties that predispose alcohol and nicotine to become drugs of abuse?
6. Comment on the mechanism of action, therapeutic uses and adverse effects of morphine.
7. Give an account of the pharmacological properties of drugs that interact with benzodiazepine receptors on the GABA-A receptor complex.
8. Describe the mechanism of action, therapeutic uses and adverse effects of prednisone.