

Ollscoil na hÉireann, Gaillimh
National University of Ireland, Galway

GX 2461

Semester I Examinations, 2003/2004

Exam Code(s)	3BO2/3BS9
Exam(s)	Pharmacology I
Module Code(s)	PM 306
Module(s)	
Paper No.	1
Repeat Paper	Special Paper
External Examiner(s)	Professor Iain Campbell
Internal Examiner(s)	Dr. M. Greal
	Dr. A. Harkin
	Ms. L. Horrigan

Instructions:

Answer 5 Questions

Duration	3 hrs
No. of Answerbooks	1,4

Requirements:

Handout	
MCQ	
Statistical Tables	
Graph Paper	
Log Graph Paper	
Other Material	

No. of Pages	2
Department(s)	Pharmacology

OLLSCOIL NA hÉIREANN
COLÁISTE NA hOLLSCOILLE, GAILLIMH
SEMESTER 1 EXAMINATION, 2003
3rd Year B.Sc.

PM 306

Professor Iain Campbell

Dr. M. Grealy

Dr. A. Harkin

Ms. L. Horrigan

Time allowed: **THREE** hours

Answer **FIVE** questions

1. Write an essay on ACE inhibitors in the control of blood pressure. Include the mechanism by which angiotensin affects blood pressure, the pharmacology and discovery of captopril, and the elucidation of angiotensin receptor subtypes.
2. Outline the process of thrombus formation. List the **three** main classes of drugs used to prevent or lyse thrombi. Describe the pharmacology of **one** of these drugs.
3. 'Molecular switches are vital for signal transduction'. Discuss this statement giving specific examples.
4. Compare the process of RNA synthesis in prokaryotes with that in eukaryotes.
5. Describe the steps involved in cloning and sequencing a gene, and outline the landmark experiment in which these techniques were used to elucidate the sequence of the beta-adrenergic receptor.
6. Discuss the use of insulin in the treatment of diabetes mellitus.
7. Discuss the pharmacological applications of oestrogens.
8. Describe the mechanism of transmission of gamma-amino butyric acid (GABA).