

Ollscoil na hÉireann, Gaillimh
National University of Ireland, Galway
Semester II Examinations 2004 / 2005

GX 1171

Exam Code(s) 2BS1, 2BO1
Exam(s)

Module Code(s) PM204
Module(s) Fundamentals of Pharmacology II

Paper No. 1
Repeat Paper

External Examiner(s) Professor Iain Campbell
Internal Examiner(s) Dr. Louise Horrigan
Ms. Michelle Roche
Dr. Maura Grealy

Instructions: Answer 4 Questions

Duration 2 Hours
No. of Pages 1
Department(s) Pharmacology
Course Co-ordinator(s) Dr. Louise Horrigan

Requirements:

MCQ
Handout
Statistical Tables
Graph Paper
Log Graph Paper
Other Material

1. Write an essay, with the aid of diagrams, on the structure and function of G-protein coupled receptors.
2. Write an essay on neuro-transmission mediated by ATP and adenosine.
3. Using examples, discuss both of the following:
 - a. Ganglion blocking drugs (10% of total marks)
 - b. Neuromuscular blocking drugs (90% of total marks)
4. Using specific examples, write an essay on antagonists of α (40%) and β (60%) adrenoceptors.
5. With the aid of diagrams, describe the signalling pathway that follows receptor-mediated activation of adenylyl cyclase. Name two neurotransmitters that use this signalling pathway, and state the receptor subtypes involved.
6. Give a brief outline of the inflammatory response and explain the mechanisms by which glucocorticoids modulate this response.