

Ollscoil na hÉireann, Gaillimh **GX 2545**
National University of Ireland, Galway

Semester II Examinations, 2003/2004

Front Page Template

Exam Code(s) 4BS2, 4BS6
Exam(s) 4th Science (including intercalated Medical student)
Module Code(s) SI404 (SI401 P3 for intercalated Medical student)
Module(s) Physiology
Paper No. III
Repeat Paper
External Examiner(s) Dr. D. Marples
Internal Examiner(s) Prof. M.T. Kane, Dr. K. Doyle
Dr. A. Hynes

Instructions:

Answer FOUR Questions out of SIX.
Students MUST attempt at least One Question from each section.
Use a Separate Answer Book for each section.

Duration Three hours
No. of Answer books Three

Requirements:

Handout
MCQ
Statistical Tables
Graph Paper
Log Graph Paper
Other Material

No. of Pages 2
Department(s) Physiology

OLLSCOIL NA hÉIREANN, GAILLIMH
NATIONAL UNIVERSITY OF IRELAND, GALWAY

Semester II, Summer 2004

B.Sc. (Hons.)

PHYSIOLOGY

Paper III

Examiners

Dr D. Marples, Prof. M. Kane, Dr. A. Hynes, Dr. K. Doyle

Answer **FOUR** Questions out of **SIX**. Students **MUST** attempt at least One Question from each section. Use a **Separate Answer Book** for each section.

Time Allowed 3 hours

Section A: Aspects of Reproductive Physiology

- A1** Write an essay on reproductive patterns of female mammals using (a) the rabbit or mink, (b) the mouse or rat and (c) the cow or sheep as examples. Why has the mouse become a very commonly used model for study of preimplantation embryo development?
- A2** Discuss the process of sexual determination.

Section B: Aspects of Immunological Physiology

- B1** Describe the principles and practice of bioassay. What are the disadvantages of bioassay and when might bioassay be used in spite of those disadvantages?
- B2** Write an essay on humoral immunity.

Section C: Aspects of Neurophysiology

- C1** 'Understanding of the pathophysiology of schizophrenia and the development of new treatments for the illness would benefit from a shift of focus away from dopamine'. Discuss this statement.
- C2** Write an essay on neuronal plasticity.