

Ollscoil na hÉireann, Gaillimh GX 2543
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) SI403 (SI401 P2 for intercalated Medical student)

Module(s) Physiology

Paper No. II

Repeat Paper Special Paper

External Examiner(s) Dr. D. Marples

Internal Examiner(s) Prof. M.T. Kane, Dr. S Grant, Dr. K. Doyle

Dr. A. Henry, Dr. A. Hynes, Dr. L. Quinlan

Instructions:

Answer Four Questions. Students must attempt at least one question in 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 II

Examiners

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

Answer Four Questions. Students **must attempt at least one question in each Section**.
Use a Separate Answer Book for each section.

Time Allowed 3 hours

Section A

- A1** Write an essay on diving physiology including the mechanism of potential medical complications.
- A2** List reasons for the need to degrade body protein. What are the main pathways by which protein is degraded? Suggest a reason why unrestrained proteolysis occurs. Name at least two conditions in which this happens.

Section B

- B1** Describe the acute and long-term physiological adaptations to altitude in humans.
- B2** What are the benefits of heat acclimatisation for endurance athletes? (75%). How should endurance athletes carry out heat acclimatisation? (25%)

Section C

- C1** Discuss the pathophysiology of Alzheimer's Disease.
- C2** Discuss ion channel structure/function relationships in relation to ion channel associated diseases.