

Ollscoil na hÉireann, Gaillimh.
National University of Ireland, Galway.

Summer Examinations, 1998

3rd Industrial Engineering
Ergonomics (Human Biology)

Professor J. Folan-Curran
Professor M. Kane
Dr. A. Hynes
Dr. B. Wilkins

Time allowed Two hours

Answer both Section A (Anatomy) and B (Physiology)

Use separate answer sheets for essays in sections A and sections B

Answer True False and answer on the exam paper.

Hand up the True False and Short Answers at the end

Put your Name and Exam Number on every page

Section AI Anatomy Essays

- I. Write an essay (10 - 15 minutes each) on three of the topics listed below.
- A. Repetitive stress injury using carpal tunnel syndrome as an example.
 - B. Spinal reflexes.
 - C. Anatomy of the back.
 - D. Control of eye movements.
 - E. Regulation of balance (the vestibular system).
 - F. The general structure of synovial joints.

Section BI Physiology Essays

- I. Write an essay (10 - 15 minutes each) on three of the topics listed below.
- A. Resting membrane potential of the cell.
 - B. Non-specific defense mechanisms of the body.
 - C. Arterial blood pressure and its control.
 - D. The process of inspiration.
 - E. The passage of the cardiac impulse through the heart.
 - F. An action potential.