

**OLLSCOIL NA hÉIREANN, GAILLIMH
NATIONAL UNIVERSITY OF IRELAND, GALWAY**

SUMMER EXAMINATIONS 2000/2001

**Higher Diploma in Applied Science
(Occupational Health and Hygiene)**

MANAGEMENT STUDIES and ERGONOMICS (IE 876)

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Professor M.E.J. O'Kelly
Professor R. Green
Mr. M Moroney
Mr. J Cunningham
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Ms. M. Kelly**

Time allowed: 3 hours

**Answer FIVE questions. Attempt TWO at least from Section A and
Section B**

Use Separate Answer Books for Each Section

SECTION A - MANAGEMENT STUDIES

Q.1 Define management and describe the four functions of management. Give examples to illustrate each function.

AND

Write a short note on ONE of the management skills (listed below) required by managers and discuss its relevance for managers and non-managers.

- (a) Conceptual Skills
- (b) Human Skills
- (c) Technical Skills

Q.2 Outline the general and task environments of a business and the dimensions of each using examples to illustrate your answer.

AND

Discuss how organisations adapt to an uncertain environment.

Q.3 Describe the strategic planning process and SWOT analysis.

OR

Outline the six steps used in managerial decision making. Use examples to illustrate your answer.

Q.4 Define motivation and explain the difference between current approaches and traditional approaches to motivation.

OR

Describe the tools managers use to recruit, select and maintain an effective workforce.

SECTION B - ERGONOMICS

- | | Marks |
|--|---------------|
| Q.5 Write short notes on four of the following: | 5x4 |
| (a) The limitations of the 1991 NIOSH Lifting Equation | |
| (b) The minimum requirements for Display Screen Equipment as outlined in the General Applications Regulations 1993 | |
| (c) Strategies for coping with the ill effects of shiftwork | |
| (d) The use of task analysis in the system life-cycle | |
| (e) Method of Limits | |
| (f) The secular trend with respect to anthropometric data | |
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Q.6 (a) Explain the terminology used to describe movement around the joints of the human body. |
8 |
| (b) The General Applications Regulations 1993 eighth schedule outlines certain reference factors for the manual handling of loads. Discuss these factors in detail using examples where appropriate to illustrate your answer. |
12 |

- Q.7** Discuss the user requirements for a computerised posture evaluation system. Use examples from your own experience where appropriate to support your answer. **20**
- Q.8** (a) Outline and briefly explain the ergonomic principles of hand tool design. **10**
- (b) What is Hand Arm Vibration Syndrome, what causes it and how can it be prevented? **10**