

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

**SUMMER EXAMINATIONS 1999**

**SECOND YEAR INDUSTRIAL ENGINEERING AND INFORMATION SYSTEMS  
SECOND YEAR SCIENCE  
THIRD YEAR SCIENCE**

**PC APPLICATIONS SOFTWARE (CT202)**

**Prof. D. Bell  
Dr. G. Lyons  
Ms. S. Hughes**

**Time Allowed: TWO HOURS**

**Candidates are required to answer Question One in SECTION A and two other questions from SECTION B**

**All questions carry EQUAL marks**

**SECTION A**

- (1)** A friend is considering purchasing a PC and has asked your advice.

Outline and explain the main issues and components of a PC that your friend would have to be familiar with to make an informed decision.

**Please Turn Over the Page**

## **SECTION B**

- (2) (a) Outline the main differences between system software and application software.  
(b) Compare and contrast the different types of operating systems available today.

- (3) Prepare a report, which outlines the main types of data-storage devices available for computers today.

In your report you should highlight the advantages and disadvantages of the different storage media and give examples of computer applications that use them.

- (4) Write notes on three of the following:

- (a) CPU
- (b) The binary storage system
- (c) Computer Viruses
- (d) Virtual Memory
- (e) Multitasking

- (5) Write notes on three of the following:

- (a) Modems
- (b) Communications channels
- (c) Data transmission
- (d) Network Architecture