NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF INDUSTRIAL TECHNOLOGY

Department of Industrial Engineering

First Semester Examinations: December, 1999

Computer Applications I, TIE 2109

Time Allowed: 2 hours 30 minutes

Answer **ALL** questions from Section A and any **THREE** from Section B. The marks allocated to each question are given in square brackets against the question in the right hand column.

SECTION A (40 marks)

1.	(a) (b)	Distinguish between a bit and a byte. What does 32 MB RAM mean?	[3] [3]	
2.	Distinguish between software and hardware giving two examples of each. [4]			
3.	(a) (b)	What is a computer virus? Name two tools (commercial products) that are used for dealing w computer viruses.	[3] ⁄ith [2]	
4.	Explair (a) (b) (c)	n the following, giving an example of each: high level programming language middle level programming language low level programming language	[2] [2] [2]	
5.	What does MSDOS stand for? Explain the difference between MSDOS and Windows. [3]			
6.	Explain what the following MSDOS commands enable the user to			
	(a) (b) (c) (d) (e) (f)	MD RD Format A: TREE PROMPT \$P\$G PROMPT \$P\$T	[1] [1] [1] [2] [2] [2]	
7.	What is the difference between MS Excel and MS Access? [3]			

- 8 Define the following, explaining the difference between them:
 - (a) the Internet[2](b) the World Wide Web[2]

SECTION B (60 marks)

9. MS Word is a word-processing application.

(b)

(a) What does the term 'word-processing' mean?

Describe, briefly, how you would produce the following equation

$$y = \frac{1}{n} \sum_{i=1}^{n} \left(\overline{X} - x_i \right)^2$$

[4]

[2]

(c) What does the term 'justification' mean?

[2]

- (d) In a text of 20 000 words the term 'university' appears twenty times. It is incorrectly spelt in two instances.
 - (i) Explain how you would quickly find out where the misspelt words were located in the text. Explain, also, how you would correct them. [4]
 - (ii) If you are required to replace the word 'university' by the word 'college' throughout the text, how would you proceed?
- (e) The essay that you are writing should not be below 1000 words and should not exceed 1500 words.
 - Explain how you would you would find out how many words you have written, without counting the words word by word.
 - (ii) The first 10 words of the essay should be emboldened and in italics. Explain how you would do this. [2]

10.(a)

- (i) Distinguish between a workbook and a worksheet in Microsoft Excel. [2]
- (ii) How many rows and how many columns does a worksheet have? [2]
- (iii) What is the size of the default workbook in Excel v5 or Excel 97? [3]

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	(b)	Describe how you would find the sum of all the contents of the cells i a column in Excel v5 or Excel 97. Describe also how you would find sum of all the contents of cells in a row. [3]	
	(c)	Explain how you would produce a line plot of one column against another in Excel v5 or Excel 97. The plot must be an embedded chart.	[5]
	(d)	Explain briefly the limitations of Microsoft Excel as a database system.	[5]
11.	(a)	Distinguish between main storage and backing storage. Give three examples of backing storage, explaining, in each case, how each i used.	
	(b)	What does the acronym LAN stand for? What are the advantages disadvantages of using LANs?	and [6]
	(c)	What is e-mail and how does it work?	[4]
	(d)	What is multimedia?	[4]
12.	(a)	What is a relational database management system?	[6]
	(b)	Define the following, with respect to Microsoft Access (i) Tables (ii) Records (iii) Fields (iv) Values	[3] [3] [3] [3]
	(c)	Name two relational database management systems (programs) other	

(c) Name two relational database management systems (programs) other than Microsoft Access that you know. [2]

END OF EXAMINATION