NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY FIRST SEMESTER EXAMINATION: APRIL 2009

INTRODUCTION TO INFORMATION TECHNOLOGY CAC 1203

Time Allowed: 3 Hours

INSTRUCTIONS

- 1. Answer All Four questions from Section A
- 2. Answer **Any Three** questions from Section B

SECTION A [40 marks]

1. Define the following terms:

a)	System	[2 Marks]
b)	System's entropy	[2 Marks]
c)	Information system	[2 Marks]
d)	Source data automation	[2 Marks]
e)	Expert system	[2 Marks]

2. Discuss auditing the operation of an Information System? [12 Marks]

3. What are the three components of an information system? [6 Marks]

4. Explain how a company can use Information Systems to improve its core competencies. [12 Marks]

SECTION B [60 marks]

*PLEASE NOTE: Answer Any Three questions from Section B

Question 1

Clearly distinguish the managerial levels of an organization and discuss using a practical example the information system applicable at each level. [20 Marks]

Question 2

a) How can a Transaction Processing System of a retail outlet chain help in an organization's strategic level planning?
 [10 Marks]

b) Discuss the difference between Office Automation Systems and Knowledge Work Systems in the way they create and use knowledge and information.

[10 Marks]

Question 3

- a) Distinguish between Decision Support Systems and Management Information
 Systems characteristics using practical examples. [12 Marks]
- b) Illustrate the model of Decision Support Systems and highlight some examples of their usage today. [8 Marks]

Question 4

a) Discuss how a Group Decision Support System would be of use to an internationally represented organization to enhance group decision making.
 [12 Marks]

b) Explain why an Executive Support System must be flexible and easy to use? [8 Marks]

Question 5

a) How is an expert system different from a neural network? [6 Marks]b) Discuss artificial intelligence and its various applications. [10 Marks]c) Briefly elucidate on the concept of fuzzy logic. [4 Marks]