NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF COMMERCE

DEPARTMENT OF BUSINESS MANAGEMENT

INFORMATION TECHNOLOGY - MDP 2002

SUPPLEMENTARY EXAMINATION – AUGUST 2010

TIME ALLOWED: 3 HOURS

INSTRUCTIONS TO CANDIDATES
Answer any **five** questions.

INFORMATION TO CANDIDATES
  (i)   All questions carry **(25)** marks each.
  (ii)   Questions may be answered in any order.
  (iii)   Credit will be given for the use of appropriate examples.
  (iv)   This paper contains **seven** questions.

QUESTION 1

Database Management Systems provide opportunities and advantages, but these advantages come at a price particularly concurrency protection issues.

Describe three levels of concurrency protection that might be provided in a database.

(20 marks)

QUESTION 2

Office automation is an attempt to create a paperless office.

Discuss.   **(20 marks)**

QUESTION 3

Information System management constitutes three elements that interact in the processing and provisioning of information.

Discuss the three elements and illustrate roles that each component plays.   **(20 marks)**

QUESTION 4

Explain how the ownership of data changes when an organisation migrates from a file system to a database management system. **(20 marks)**

QUESTION 5

Systems Analysis is regarded as a pillar to the successful creation of an end-user oriented product.

Give an in-depth justification of this statement in the software development process.
(20 marks)

QUESTION 6

Explain the three types of file structures and describe one application appropriate for each type. **(20 Marks)**

QUESTION 7

Using Porter and Miller's concept of the value chain, explain how information technology can be used to transform business activities. **(20 marks)**

END OF EXAMINATION