

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF COMMERCE
DEPARTMENT OF ACCOUNTING
JANUARY EXAMINATIONS 2011

SUBJECT: INTRODUCTION TO INFORMATION TECHNOLOGY

CODE: CAC 1203

INSTRUCTION TO CANDIDATES

Answer any four (4) questions. The question paper consists of six (6) questions.

Each question carries 25 marks

Time: 3 hours

Question One

- a) Describe the following terms as used in computer storage:
- i. Random-access memory (RAM) [4]
 - ii. Read-only memory (ROM) [4]
 - iii. Hard disk [4]
 - iv. Flash memory [4]
 - v. Optical discs [4]
- b) A general purpose computer can be classified as a business machine. Justify. [5]

Question Two

- a) What is the meaning of the following database terms:
- i. Database [4]
 - ii. File [4]
 - iii. Record [4]
 - iv. Field [4]
 - v. Data [4]
- b) Discuss the functions of an Operating System in a computer. [5]

Question Three

- a) Define software and state one example of a software program. [3]
- b) Distinguish between a word processor program and a spreadsheet program. In what instance would one use a spreadsheet. [6]
- c) What are the three hardware requirements for networking computers. [6]
- d) Discuss computer ergonomic issues of concern for data capture clerks who spend most of their working hours feeding input data on computer terminals. [10]

Question Four

- a) Define the following computer networking terms:
 - i. LAN [4]
 - ii. WAN [4]
 - iii. MAN [4]
 - iv. Topology [4]
 - v. TCP/IP [4]
- b) What is an Information Society? Differentiate between an Information Society and a Knowledge Society. [5]

Question Five

- a) A Database Management System (DBMS) has both software and hardware components. Explain. [4]
- b) Differentiate between the Internet, Intranet and Extra-net. [6]
- c) Use a well-labeled diagram to describe the computer hardware system. [15]

Question Six

- a) A computer virus disrupts the normal operations of a computer. Give two examples of Viruses and distinguish them from Worms and Trojan Horses. [4]
- b) Briefly explain the concept of Electronic-Commerce. [6]
- c) Discuss the following computer network topologies:
 - i. Star [5]
 - ii. Ring [5]
 - iii. Bus [5]

THE END