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

SUBJECT: **INTRODUCTION TO INFORMATION TECHNOLOGY**
CODE: **CAC1203**

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) What is the use of a computer in an office environment?   [4]

   b) State three advantages and two disadvantages of computer networks.   [5]

   c) Briefly describe the four main components of a computer hardware system. [16]

Question Two

   a)   Explain the following computer network terms:

       i.   Internet   [3]

       ii. Extranet   [3]

       i.   Intranet   [3]

   b) Using examples distinguish between application software and systems software. [6]

   c) Explain the main functions of an Operating System.   [10]

Question Three

   a) The three hardware requirements for networking computers are transmission medium,

      network interface card and a computer. Discuss.   [12]

Question Four

   a)   Define the following terms used in computer software:

       i.   Virus   [2]

       ii. Worm   [2]

       iii. Trojan horse   [2]

       iv. Program   [2]

       v.   Application   [2]

   b) State three examples of computer input devices and two output devices.   [5]

c) Evaluate the effectiveness of e-commerce on the Zimbabwean business environment? [10]

Question Five

a) Define a database and a database management system (DBMS). State one example. [5]

b) Use a well-labeled diagram to describe the following network topologies:

    i.   Star   [5]

    ii. Ring   [5]

    iii. Bus   [5]

    iv. Mesh   [5]

Question Six

a) Define the following data transmission modes:

    i.   Half duplex   [2]

    ii. Full duplex   [2]

    iii. Simplex   [2]

    iv. Asynchronous   [2]

    v. Synchronous   [2]

b) Give three examples of computer crimes. [6]

c) Information systems can either be classified as Transaction Processing Systems, Decision Support Systems and Expert Systems. Briefly explain each type of system. [9]

THE END