

# **END OF 1<sup>ST</sup> TRIMESTER 2010 EXAMINATIONS**

FACULTY: COMPUTING AND INFORMATICS

**DEPARTMENT : COMPUTER INFORMATION SYSTEMS** 

UNIT CODE : DBIT 103

UNIT TITLE : COMPUTER OPERATIONS AND MANAGEMENT

TIME : 2 HOURS

#### **Instructions:**

• Answer question 1 and any other 2 questions.

## Question 1 (30 marks)

a) Describe the following hardware components. (10 mks)

- i) Heat sink
- ii) Power supply
- iii) Mother board
- iv) Memory chip
- v) ROM BIOS
- vi) Lithium battery
- vii) SVGA card
- viii) Hard disk
- ix) Processor
- x) NIC card
- b) Briefly describe the POST process and explain how it performs this event. (2 mks)
- c) With reference to hard disk compare EIDE and SATA. (4 mks)
- d) Explain the purpose of the config.sys and autoexec.bat file in the MSDOS/Windows Opertaing System. (4 mks)
- e) Write the above abbreviations in full and write short notes on each. (10 mks)
  - i) FAT
  - ii) NTFS
  - iii) RAID
  - iv) CMOS
  - v) BIOS

#### Question 2 (15 marks)

- a) Briefly describe two ways of protecting your system from electrical spikes. (2 mks)
- b) Describe the most common ways that device drivers are installed on Windows PCs. (4 mks)

- c) List and describe the three types of resources in device manager. (6 mks)
- d) What is an active partition? Explain its relevance in Windows. (3 mks)

### Question 3 (15 marks)

- a) Describe two types of ports. (2 mks)
- b) Differentiate AT from XT keyboards. (2 mks)
- c) Explain the general guidelines to follow when dealing with laser printers. (3 mks)
- d) Define a bus connector. (2 mks)
- e) Explain the following types of bus connectors;
  - i) EISA (2 mks)
  - ii) VESA (2 mks)
  - iii) PCI (2 mks)

# Question 4 (15 marks)

- a) List the general rules for memory installation. (2 mks)
- b) Explain the factors to consider when purchasing the highest quality hard drive. (3 mks)
- c) Describe three main issues to consider when installing a Windows server operating system. (3 mks)
- d) Define a programmed threat.(2 mks)
- e) Explain the terms below:
  - i) Virus (1 mk)
  - ii) Trojan horse (1 mk)
  - iii) Worm (1 mk)
  - iv) Salami attack (1 mk)
  - v) Logic bomb (1 mk)