

**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**FACULTY OF BUILT ENVIRONMENT**

**BACHELOR OF QUANTITY SURVEYING (HONOURS) DEGREE**

**PART I FIRST SEMESTER EXAMINATIONS DECEMBER 2011**

**INTRODUCTION TO INFORMATION TECHNOLOGY - AQS1109**

**TIME:** 3 Hours

**TOTAL MARKS:** 100

**INSTRUCTIONS:**

Answer any four questions

No calculators are allowed in this Examination.

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**Question One**

- a) Suggest appropriate computer devices for the following situations: -
- i) Your new boss is a blind person, but can talk and hear. How will they interact with the computer system in their office? [5 marks]
  - ii) There is need to keep track of every transaction carried out at your front desk for audit purposes. How do you plan to cater for this? [5 marks]
- b) Convert the following numbers: -
- i) 0.75; Decimal to Binary
  - ii) 11111111; Binary to Hexadecimal
  - iii) 34F; Hexadecimal to Octal [9 marks]
- c) What measures would you put in place to ensure that your organizational data in your computer systems is secure? [6 marks]

**Question Two**

- a) What is a Database Management System (DBMS)? [2 marks]
- b) Use a particular example DBMS to explain the role it plays in a database environment. [8 marks]
- c) Discuss the impact of the INTERNET on service delivery in a Quantity Surveying environment showing clearly how the trade has since changed ever since the advent of the INTERNET. [15 marks]

**Question Three**

- a) You wish to set up a computer system for your newly founded organization. What considerations would you make in selecting computer technologies for this processing environment? [12 marks]
- b) Explain any three roles played by the operating system in a computer system. [9 marks]
- c) How would you employ the following Application Software to improve work processes at your work place?

- i) Microsoft Access
- ii) Microsoft Power-point [4 marks]

**Question Four**

- a) Explain how the following computer devices achieve their intended roles in the computer system: -
  - i) CD-ROM
  - ii) Drum Printer
  - iii) Modem [9 marks]
- b) Social networks (Face book, Twitter, Hi5, etc) are a waste and abuse of organizational resources. Discuss. [16 marks]

**Question Five**

- a) Using annotated diagrams illustrate the following network topologies: -
  - i) Star
  - ii) Ring
  - iii) Mesh
  - iv) Bus [20 marks]
- b) In what ways does an intranet differ from an extranet? [5 marks]