NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF BUILT ENVIRONMENT

BACHELOR OF QUANTITY SURVEYING (HONOURS) DEGREE

PART I SUPPLEMENTARY EXAMINATIONS 2012

<u>**INTRODUCTION TO INFORMATION TECHNOLOGY - AQS1109**</u>

Time: 3 Hours   Total marks: 100

<u>**INSTRUCTIONS:**</u>

Answer any Four Questions

All Questions carry equal marks

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Question One

a) Briefly describe the function of the following computer hardware and peripheral devices.
  i)   Hard Disk
  ii)   Mouse
  iii) Digital Scanner
  iv) Visual Display Unit
  v)   Modem   [15 marks]

b) Explain the concept of Voice Recognition giving particular instances where it can be employed to service an organization's need.   [10 marks]

Question Two
  a) Your organization wishes to acquire a computer system to set up a new information system to help handle company data and meet information needs for the entire community. What advice do you have for the Information Technology Director as he endeavors to set up a system that will allow for growth of the organization and any changes that might occur in future?   [10 marks]

  b) Discuss the role of the INTERNET in a Quantity Surveying environment. [15 marks]

Question Three
  a) How would you use the Conditional Logic statements in Microsft Excel to improve the computations your Quantity Surveying organization is set to perform?   [10 marks]

b) Computer social networks such as Face book, MySpace, Hi-5, etc. can build or destroy an organization. Discuss. [15 marks]

Question Four
a) Distinguish between Traditional File Systems and Database Systems [10 marks]

b) Convert between the following number systems:
   i)   1111 Binary to Hexadecimal   [2 marks]
   ii)   25 Decimal to Binary   [2 marks]
   iii)   25F Hexadecimal to Octal   [2 marks]
   iv)   10,1 Binary to Decimal   [2 marks]
   v)   20 Decimal to Hexadecimal   [2 marks]

c) Main memory plays a critical role in a computer system. Explain. [5 marks]

Question Five
Select any five application programs you have studied in the course, and discuss how each one can be used to improve the processing environment in a university set up. [25 marks]