

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF INDUSTRIAL TECHNOLOGY

DEPARTMENT OF TECHNICAL TEACHER EDUCATION

BACHELOR OF EDUCATION HONOURS DEGREE

MAIN EXAMINATION

Course: Introduction to Computing

Part/year: Bridging Course

Time: 3 hours

TTE 0212

May 2011

100 marks

Instructions to candidate:

1. Answer any four questions. Paper contains five questions.

DURATION 3 Hours

QUESTION ONE

- a) Outline the structure of a computer system [3]
- b) What are the four basic concepts associated with computers. [20]
- c) Give an example of an output device. [2]

QUESTION TWO

- a) Define the following terms with respect to computing
 - i) Hardware [3]
 - ii) Software [3]
 - iii) Keyboard [3]
 - iv) Mouse [3]
 - v) Central Processing Device [3]
- b) Define and Differentiate between a Database and a Spreadsheet [10]

QUESTION THREE

- a) Outline the advantages of having a computer network as opposed to a standalone computer. [10]
- b) What topologies of networks are possible? Illustrate with diagrams [15]

QUESTION FOUR

You have been asked to attend a conference representing your institution where you are tasked with presenting a paper. The theme of the conference is “**Impact of Computing in Education**”. Write a sample of the paper you might present on that theme. [25]

QUESTION FIVE

- a) What impact if any has the Internet had on computer systems? [10]
- b) What threats exist against computer systems? [10]
- c) What possible solution exists against threats to computer systems? [5]

END OF EXAMINATION