# NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

## FACULTY OF INDUSTRIAL TECHNOLOGY

### DEPARTMENT OF TECHNICAL TEACHER EDUCATION

### BACHELOR OF EDUCATION HONOURS DEGREE

### MAIN EXAMINATION

*Course:* ***Computer Applications II***                                                                 *TTE 2112*
**Part/year:**      II                                                                                            May 2011
**Time:**            3 hours                                                                                  100 marks

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*Instructions*
1. Answer any four questions. Paper contains five questions.
                                                                                    **DURATION 3 Hours**

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## QUESTION ONE

   a) Define Social Software, giving appropriate examples?                              [5]
   b) What are considered to be components of Social Software                       [4]
   c) Discuss the impact of Social Software on global current affairs.               [16]

## QUESTION TWO

   a) What is a Web Application?                                                                           [3]
   b) ***"Web Applications are popular because of the ubiquity of web browsers"*** explain in detail the meaning of this expression.                                                             [7]
   c) Define and differentiate between what is known as server- side application and client-side application.                                                                                                  [10]
   d) What are considered to be disadvantages of Web Applications?                [5]

## QUESTION THREE

   a) What term is used to describe application software designed to help people involved in a common task achieve their goals.                                                              [3]
   b) What are considered to be the three categories of this (required in part a) type application software. Explain them in detail.                                                          [9]
   c) Diagrammatically illustrate the architecture of Cloud computing.            [7]

d) State any three of the four deployment models of Cloud computing. [6]


**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 **"Computer Applications in Education".**Write a sample of the paper you might present on that theme. [25]


**QUESTION FIVE**
A database is an organized store of information constructed around a particular theme.

a) Define the following terms with respect to the Access Application Database.
   i)     Field          [2]
   ii)    Record         [2]
   iii)   Table          [2]
   iv)    Object         [2]
   v)     Data type      [2]

b) In detail explain the three models of Databases. [15]


*END OF EXAMINATION*