NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF ARCHITECTURE

COMPUTER AIDED ARCHITECTURAL DESIGN I

AAR 2103

Examination Paper

December 2014

This examination paper consists of 4 pages

Time Allowed: 4 hours

Total Marks: 100

Special Requirements: Standard Residential Window and Door Schedule

Examiner's Name: Mr. Andrew Furusa

INSTRUCTIONS

1. Answer all questions
2. Question 1 to be completed in the answer book provided, while Question 2 will be completed on the PC.
3. Make sure that you save your work at every 5 minute intervals.
4. Do not leave your PC/Workstation until your drawing has been collected on a flash disk by the Invigilator

MARK ALLOCATION

QUESTION	MARKS
1.	15
2.	85
TOTAL	100

QUESTION 1

(a.) What do you understand by the term **Computer-Aided Design** (**CAD**) in relation to Architectural Design and the execution of Architectural Projects?   (5)

(b.) What are the advantages of using CAD over traditional Architectural drafting methods that use rulers, squares, compasses, etc?   (10)

QUESTION 2

The exercise consists of an accurate design of a three bed-roomed house. The general floor layout of the house is attached as Appendix I. The windows and door codes are from the standard Monarch catalogue and along with the furniture, are given in AutoCAD blocks in your drawing.

STEP 1:

(a.) Open the drawings on your computer Desktop and save it under the name [STUDENT NUMBER] CAAD01/2014.

STEP 2:

(a) Set the Layers, Text Styles, Line Types, Dimension's Style as is necessary to reproduce the given drawing.

(b) Redraw the FLOOR PLAN with all dimensions, hatching and relevant notes as shown on the attached Appendix 1.   (40)

STEP 3:

(a.) Attached are two elevations, the South and the West Elevation. Draw the Section A-A, and the North and East Elevations that are commensurate with the given floor plan, with all necessary notes and windows as shown in Appendix 1.

Section	(15)
North Elevation & East Elevation	(20)
Write notes with TEXT STYLE of your choice.	(10)