

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF THE BUILT OF ENVIRONMENT

DEPARTMENT OF ARCHITECTURE
BACHELOR OF ARCHITECTURE (HONOURS) DEGREE

PART II – FIRST SEMESTER EXAMINATIONS - JANUARY 2008
AAR2103 - COMPUTER AIDED ARCHITECTURAL DESIGN I

Instructions

Time: 4 hours

- Every candidate is provided with one A4 size question paper, Appendix 1 and Appendix 2 in hard-copies, and usable CAAD Blocks in soft-copies.
- Students are to follow steps 1 to 4 to reproduce the house plan (floor plan, elevations and a section) given on Appendix 1 and Appendix 2.
- All drawing on the machine is done at scale 1:1
- Save your work on the Desktop (C-Drive) of the machine where you are working.
- **Personal USB storage devices are not permitted in the examination room**

QUESTIONS

1. The exercise is to reproduce the given A3 sized 1:100, hardcopies of a 3-bedroomed house. An accurate, general layout of the house is saved on the desktop your machine under the name CAAD 01/2008. Window codes are the designer's.

Step 1:

1. Open the drawing file CAAD 01/2008
2. Save the drawing as CAAD/ [your registration number]/2008

Step 2:

1. Set the DIMENSION STYLE and TEXT STYLE, as can be legible at scale 1:100,
2. You will be required to use the DRAWING TOOLS as OSNAP, ORTHO, GRID, SNAP, and CUSTOMIZE relevant MENUS for accuracy.

Step 3:

- (a) Draw the FLOOR PLAN with all dimensions, hatching and relevant notes as given on Appendix 1.

[50 marks]

Step 4:

1. Reproduce the 3 Elevations and a Section with all notes and windows as shown on Appendix 2. Different **Colour** codes, and different **Layers** for different pen thicknesses.
2. Use a **Text Style** of your choice legible at scale 1:100 on A3 size paper.
3. Complete the A3-size (1:100) Title-blocks with your details as in Appendices 1 and 2. [50 marks]