NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY FACULTY OF ARCHITECTURE AND QUANTITY SURVEYING

DEPARTMENT OF ARCHITECTURE BACHELOR OR ARCHITECTURAL STUDIES (HONOURS) DEGREE

PART II - FIRST SEMESTER EXAMINATIONS – DECEMBER 2006 AAR2103 – COMPUTER AIDED ARCHITECTURAL DESIGN 1

INSTRUCTIONS

Time: 4 Hours

- 1) Each candidate to be provided one copy of question papers, Appendix 1 on A3 sheets, and an empty floppy disk 3¹/₂".
- 2) Carefully read the description of the architectural design of the house represented in Appendix 1.
- *3) Answer all questions.*
- 4) Marks for each question are indicated in brackets.

Appendix 1 represents an architectural design of a three bed roomed house. The design consists of a floor plan, Section A-A and four (4) elevations.

The floor plan shows the following accommodations:

- A lounge
- A dining room
- A master bedroom with ensuite bath
- A toilet
- A bathroom
- A kitchen
- Bedroom 1
- Bedroom 2

The windows and doors are from the standard Monarch Metal Catalogue.

QUESTIONS

1. Draw the North, South, East and West elevations.	[25]
2. Indicate all dimensions on the floor plan and on Section A-A.	[25]
3. Label elevations and section correctly according to the north point shown.	[5]
4. Label the rooms, indicate floor finishes.	[5]
5. Annotate the elevations and sections (as on the printed A3 sheet) showing all construct provided.	tion notes [5]

6. Arrange the sanitary fittings in their approx	opriate and respective places.	[5]	
7. Use the HATCH command to hatch the fo	ollowing:		
(a) the walls on the floor plan and th(b) the roof covering in the elevation(c) reinforced concrete beams, footinA-A.		bs on the section [10]	
8. Open the Layers Dialogue Box and assign layers listed below:	n /change the colours to the objects in th	ne layers in the	
<u>Layer Name</u>	Colour Required		
Elevations Walls	White Yellow		
Doors Dimensions	Magenta Magenta		
Windows Sanitary Fittings	Red White		
Room Annotations and text	Grey		
Furniture Notes	White Red	[10]	
9. Fill in your details in the Title Block provided (Date, Candidate number, etc)		[10]	
10. Save the drawing file as AAR 2103/ Candidate number on the 3 ¹ / ₂ " floppy disk provided. [5]			