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

DEPARTMENT OF ARCHITECTURE
BACHELOR OF ARCHITECTURAL STUDIES (HONOURS) DEGREE

PART II FIRST SEMESTER EXAMINATIONS – DECEMBER 2005
AAR 2103 – COMPUTER AIDED ARCHITECTURAL DESIGN II

Instructions   _Time :_   _4 Hours_

_1)_   _Each candidate to be provided one copy of question papers, Appendix I on A3 sheet, and empty floppy disk 3 ½”._
_2)_   _Carefully read the description of the architectural design of a cottage represented in Appendix I._
_3)_   _Answer all questions._
_4)_   _Marks for each question are indicated in brackets._

Appendix I represents an architectural design of a two-bedroom cottage.
It consists of a floor plan, four elevations and a section A - A.

The plan shows the following components as indicated :

-        two bedroom
-        kitchen
-        bathroom
-        toilet
-        lounge/dining room
-        pantry

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

Questions

1.   Indicate all dimensions on the floor plan and section A - A. Set dimension style at your own choice but in agreement with general architectural standards.   [20]

2.   Draw North, South, East, and West elevations   [20]

3.   Label elevations and section correctly according to the North Point shown   [10]

4.   Label the rooms, indicate floor levels and floor finishes.   [5]

5.   Annotate in the boxes on the section A - A accordingly to the construction notes provided.   [5]

6.   Use HATCH command to hatch the following:

         a)   the walls on floor plan and section A – A.
         b)   roof covering in the elevations.
         c)   reinforced concrete beams, footings, the hardcore and concrete slabs on the section A - A;
                                                                                                                [15]

7.   Open the Layers Dialogue Box and assign/change the colours to the objects in the layers listed below:

Layer Name:	**Colour Required**	
Doors	White	
Dimensions	Red	
Elevations	White	
Drainage	Green	
Furniture	Magenta	
Rooms	Green	
Sanitary fittings	Cyan	
Text	Various	
Walls	Green	
Windows	Cyran	
Room	Red	
Text	White	
Notes	Yellow	[10]

9. Fill in the details in the title block (candidate number, department etc.) [10]

10. Save the drawing file as AAR 2103/Candidate number on the floppy disk provided. [5]