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

### **DEPARTMENT OF ARCHITECTURE** BACHELOR OF ARCHITECTURAL STUDIES (HONOURS) DEGREE

# PART II SUPPLEMENTARY EXAMINATIONS – JULY 2006 AAR 2103 – COMPUTER AIDED ARCHITECTURAL DESIGN I

### 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 <sup>1</sup>/<sub>2</sub>".
- 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 one-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
- study

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

# Questions

1. Draw North, South, East, and West elevations. [25] 2. 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. [25] 3. Label elevations and section correctly according to the North Point shown [5] 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. Arrange the furniture/fittings in appropriate places. [5] 7. Use HATCH command to hatch the following: the walls on floor plan and section A - A. a) roof covering in the elevations. b) reinforced concrete beams, footings, the hardcore and concrete slabs on the section A - A; c) [10] 8. Open the Layers Dialogue Box and assign/change the colours to the objects in the layers listed below:

Lay	ver Name:	Colour Required	
Elev	vations	White	
Wa	lls	Red	
Doo	Drs	Green	
Din	nensions	Yellow	
Wir	ndows	Blue	
San	itary fittings	Cyan	
Tex	t	White	
Gla	zing	Green	
Fur	niture	White	
Hat	ch	Yellow	[10]
). Fill	Fill in the details in the little block (candidate number, department etc.)		[10]
10. Sav	Save the drawing file as AAR 2103/Candidate number on the floppy disk provided.		[5]