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

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

## PART II - SUPPLEMENTARY EXAMINATION - AUGUST 2005 AAR 2202 - BUILDING CONSTRUCTION II

Instructions

Time: 3 Hours

(5)

## Answer All Questions

# **QUESTION 1**

A proposed rectangular double storey building comprising of four classrooms measures 18 000mm by 7 660mm. The 7 660mm is inclusive of 1 660mm corridor with five (5) brick columns measuring 460mm by 460mm on the edge of the corridor on both ground & first floors. The roof will be a cantilevered flat roof type with a parapet wall. The floor slab is 150mm thick. The headroom is 3 600mm for each floor. This building will be constructed in Bulawayo.

a)	Provide a sectional	detail of this	roof showing all roof mer	mbers. (1	0)

- b) State the purpose of each roof member. (10)
- c) Using drawings clearly showing how you would drain rain water from this roof. (10)
- d) Compare & contrast flat roofs with steep pitched roofs. (10)

# **QUESTION 2**

- a) What type of stair would you recommend for the building in question one? Give reasons for your choice. (5)
- b) Draw the plan and section of the above stair. Clearly show your calculations. (10)
- c) What are the advantages of r.c. stairs.

# **QUESTION 3**

- a) Differentiate between the following:
  - i) Dubbing and hacking
  - ii) Floating and rendering
  - iii) Checking chalking dado and skirting (8)

	Describe the main categories of wall finish. Draw details of stone cladding.	(6) (6)		
<u>QUES</u>	STION 4			
a)	What type of doors would you recommend for the following?			
i)	Bathroom, ii) showroom iii) restaurant			
vi)	cinema hall & bank entrance			
b) Dra	(10)			