## NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

 FACULTY OF ARCHITECTURE \& QUANTITY SURVEYING
## DEPARTMENT OF ARCHITECTURE

 BACHELOR OF ARCHITECTURAL STUDIES (HOUNORS) DEGREE
## PART II - SUPPLEMENTARY EXAMINATION - JULY 2005

## AAR 2202- BUILDING CONSTRUCTION II

Instructions
Time: 3 Hours

## Answer All Questions

## QUESTION 1

A proposed rectangular double storey building comprising of four classrooms measures 18000 mm by 7660 mm . The 7660 mm is inclusive of 1660 mm corridor with five (5) brick columns measuring 460 mm by 460 mm 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 150 mm thick. The headroom is 3600 mm for each floor. This building will be constructed in Bulawayo.
a) Provide a sectional detail of this roof showing all roof members.
b) State the purpose of each roof member.
c) Using drawings clearly showing how you would drain rain water from this roof.
d) Compare \& contrast flat roofs with steep pitched roofs.

## QUESTION 2

a) What type of stair would you recommend for the building in question one? Give reasons for your choice.
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
b) Describe the main categories of wall finish.
c) Draw details of stone cladding.

## QUESTION 4

a) What type of doors would you recommend for the following?
i) Bathroom, ii) showroom iii) restaurant
vi) cinema hall \& bank entrance
b) Draw a section \& a plan of at least one of the above doors.

