	NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY FACULTY OF THE BUILT ENVIRONMENT DEPARTMENT OF ARCHITECTURE BUILDING CONSTRUCTION II	
	AAR 2202	
Examination Paper		
May 2016		

This examination paper consists of 2 pages

Time Allowed: 4 hours

Total Marks: 100

Special Requirements: A1 Sheets, T-squares, Drawing Boards, Masking Tape

Examiner's Name: Miss M. V. Mudombo

INSTRUCTIONS

- 1. Answer all three (3) questions
- 2. Use an appropriate scale for drawings.
- 3. Illustrate answers with sketches
- 4. Marks will be awarded to neatly presented work.
- 5. You can either draw in pencil or technical pen.
- 6. Number all your sheets and include candidate numbers only.

MARK ALLOCATION

QUESTION	MARKS
1.	50
2.	25
3.	25
TOTAL	100

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QUESTION 1

- a. List any five functions of doors giving examples of the type of doors appropriate for each function. [10]
- b. Using any 2 different door operation mechanisms you have studied, draw for each a typical plan, section and elevation of any of the following types of doors using an appropriate scale:
 - i. aluminium framed glass door [15]
 - ii. battened, ledged and braced door [15]
- c. Draw a typical section of a steel-framed window clearly showing the various components and how to prevent water permeation. [10]

QUESTION 2

- a. What factors influence the design and location of a typical domestic fireplace? [5]
- b. Give a detailed typical vertical cross section through the throat of a ground floor masonry fireplace for a living room. [10]
- c. Draw typical details of the following:
 - i. Curtain walling attachment to the structural frame of the building [5]
 - ii. Timber cladding of a brick wall [5]

QUESTION 3

- a. Illustrate with the aid of sketches the different forms of stairs you have studied. [10]
- b. Sketch a detailed section through an open riser steel stair showing the various components that make up a stair. [10]
- c. A client is debating between the use of parquet or carpet in their living room. Advise them on the comparative performance of the two finishes giving your recommendations. [5]