



**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**FACULTY OF THE BUILT ENVIRONMENT**

**DEPARTMENT OF ARCHITECTURE**

**BUILDING CONSTRUCTION II**

**AAR 2202**

**Supplementary Examination Paper**

**July 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**

<b>QUESTION</b>	<b>MARKS</b>
1.	50
2.	25
3.	25
<b>TOTAL</b>	<b>100</b>

### **QUESTION 1**

- a. Define the following terms using illustrations where appropriate:
- i. Stairs [2]
  - ii. Stairwell [2]
  - iii. Run/flight of stairs [2]
  - iv. Winder stair [2]
  - v. Closed stair [2]
- b. A client requires an open dog-leg timber stair to be situated in their entrance hall. Assuming the floor to floor height is 3m, design and draw a detailed floor plan and section of this stair showing all stair components at an appropriate scale. [30]
- c. Giving reasons for your answer, state the considerations that are to be made before selecting a type of stair. [10]

### **QUESTION 2**

- a. List the functions of cladding. [5]
- b. Using well annotated illustrations, describe any 2 cladding systems you have studied. [10]
- c. Discuss in-situ and applied finishes. [10]

### **QUESTION 3**

- a. Describe with the aid of sketches any five types of door operation mechanisms that you have studied. [10]
- b. With the aid of well annotated diagrams, do a comparative analysis of masonry and prefabricated fireplaces. [15]