

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY FACULTY  
OF ARCHITECTURE AND QUANTITY SURVEYING  
BACHELOR OF QUANTITY SURVEYING (HONOURS) DEGREE  
PART I SECOND SEMESTER SUPPLEMENTARY EXAMINATIONS  
JULY 2006

MEASUREMENT 1 – AQS 2103

TIME: 3 Hours

TOTAL MARKS: 100

**INSTRUCTIONS TO CANDIDATES**

Read **carefully** all questions before attempting to answer them.

Section A is **compulsory**.

Section B is **optional** (choose 1 question).

You can bring into the exam:

1. Standard Method of Measurement
2. Calculator

Take off paper will be provided

You are advised to spend:

2 hours on Section A

1 hour on Section B

**Note:**

All drawings are not to scale

Where information is inadequate, students are allowed to make reasonable assumptions. In such a case, students must state the assumption made.

## **SPECIFICATIONS**

### **SUPERSTRUCTURE**

#### **Walls**

All external walls on floor plan are 230mm thick and 3000mm high. Allow for 3 courses of beam filling

All internal walls of proposed layout are 115mm thick.

To be built in stretcher bond in cement mortar (1:4).

Brick-force to be laid after every 4<sup>th</sup> course.

To be plastered and painted internally and externally.

Height of ceramic wall tiles                      2 100mm

Remaining height to be plastered and painted.

Window cills and reveals to be plastered and painted.

Concrete lintels above windows and doors.

Window types - NE7	Size 1022 x 654mm
- ND4F	Size 1511 x 1245mm

Door Sizes - D1	Size 813 x 2032mm
- D2	Size 762 x 2032mm

**NOTE:** Where dimensions are not shown, reasonable assumptions may be made. All assumptions must be clearly stated.

## **SECTION A**

(Compulsory)

### **Question 1**

a) Measure all the windows including deductions for openings on Diagram 1. (30)

b) Measure all the doors including deductions for openings on Diagram 1. (20)

## **SECTION B**

(Choose one question only)

### **Question 2**

Measure all the wall finishes to Diagram 1. (50)

### **Question 3**

Prepare a mini Bill of Quantities for windows and doors section only showing all the necessary steps. (50)