

**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**FACULTY OF THE BUILT ENVIRONMENT**

**BACHELOR OF QUANTITY SURVEYING**

**PART 1 SUPPLEMENTARY EXAMINATION AUGUST 2013**

**MEASUREMENT 1 – AQS 1203**

Time: 3 hours

Total Marks: 100

**Instructions to candidates**

Answer Question 1 and any other Two

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**QUESTION ONE**

Using the attached drawing number AQS A1203/02 take off and square all the foundation items, up to slab level state all necessary assumptions where information is not provided

**(50 marks)**

Take note of the following

- There are 3 trees with girth  $> 500 < 1000$  mm
- Depth of foundation is 1000mm from ground level
- Allow 1000mm both sides for site clearance
- Depth of top soil to be removed is 150mm
- DPC is 150mm above ground level

**QUESTION TWO**

Using drawing number AQS A1203/02, take off and square all roof covering item

**(25 marks)**

### **QUESTION THREE**

Using the specifications given below, take off and square all windows and doors from drawing number AQS1203/02

#### **SPECIFICATIONS**

- All windows have brick on edge lintels and external window cills in red rustic face brick
- Internal window cills are plastered
- Glazing to windows except the bathroom window is 3mm clear glass. Bathroom window is 4mm obscure
- The doors are semi solid flash panel doors and internal doors have 2 lever locksets and external doors have 3 lever locksets
- Make assumptions for the finishes **(25 marks)**

### **QUESTION FOUR**

- a. Explain why foundations are measured as provisional items **(5 marks)**
- b. Outline the general principles of taking off **(10 marks)**
- c. Explain the process of preparing a Bill of Quantity using the traditional method **(10 marks)**