

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

DIPLOMA IN CIVIL ENGINEERING

EBC 2305: MEASUREMENT OF BUILDING WORKS

END OF SEMESTER EXAMINATION

SERIES - APRIL 2016

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination

- Answer booklet
- Pocket calculator
- Standard method of measurement for building works

This paper consists of **FIVE** questions

Answer any **THREE** questions

Maximum marks for each part of a question are as shown

QUESTION ONE

Take off all quantities for the substructures works shown in drawing no 01. (20marks)

QUESTION TWO

Take off all quantities for the flush door shown in drawing no 02 including adjustments (20marks)

QUESTION THREE

Take off all quantities for the flat roof shown in drawing no 03 including rain water goods. (20marks)

QUESTION FOUR

a) Outline FOUR uses of a bill of quantities

(6marks)

- b) Describe the following types of Bills of quantities
 - i) Elemental
 - ii) Traditional

iii) Operational

(6marks)

c) With suitable illustrations explain what is meant by running through dimension

(3marks)

d) Describe the uses of a dimension paper

(5marks)

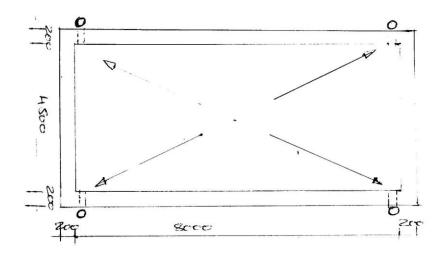
QUESTION FIVE

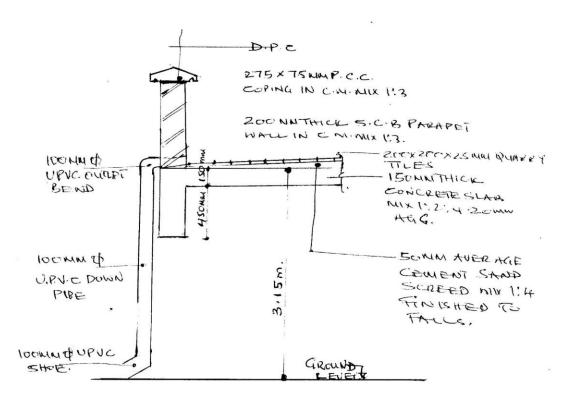
i) Outline the term "variations" (2marks)

ii) Outline any 'four" processes of valuing variations (6marks)

iii) Describe any FOUR contact documents used in building contracts. (12marks)

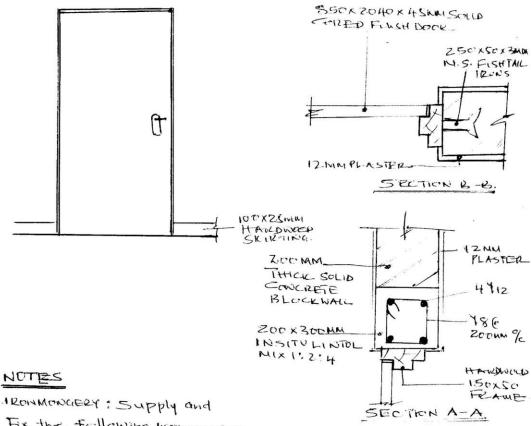
FLAT CONCRETE ROOF





DRAWING NO 03 NOT to scale

FLUSH DOOR [INTERNAL]



Fix the following wountingery Items

- 1. 100 mm wide brass but hinges
- 3 lever mortice lock
- 3. 38mm rubber door Step
- 4. Automatic door closer type A198.
- 5, 150 mm long brace barrel bolt.

DRAWING NO OZ Not to scale,

