

# **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**

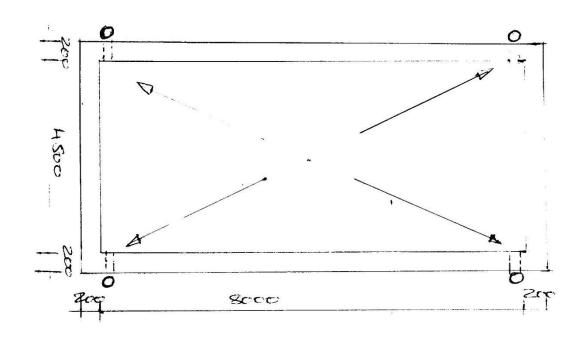
i) Outline the term "variations" (2marks)

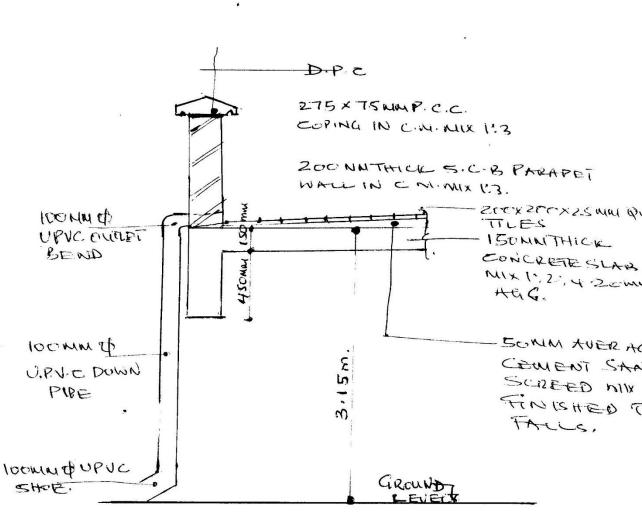
ii) Outline any 'four" processes of valuing variations (6marks)

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

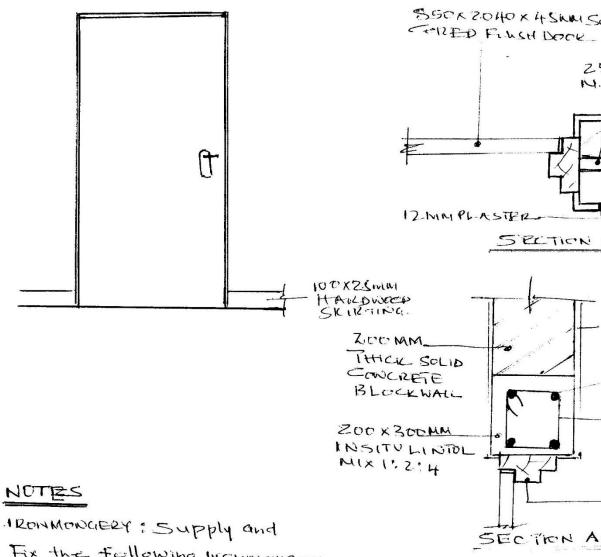


# FLAT CONCRETE ROOF





#### DOOR [INTERNAL] FLUSH



# NUTES

Fix the following wonmongery Items

- 1. 100 mm Wide brass but hinges.
- 2. 3 lever mortice lock
- 3. 38mm rubber door Stop
- 4. Automatic door closer type A198.

5. 150 mm long brass barrel

