TECHNICAL UNIVERSITY OF MOMBASA

# FACULTY OF ENGINEERING AND TECHNOLOGY <br> DEPARTMENT OF BUILDING AND CIVIL ENGINEERING <br> DIPLOMA IN CIVIL ENGINEERING <br> EBC 2305: MEASUREMENT OF BUILDING WORKS <br> END OF SEMESTER EXAMINATION <br> 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

## 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
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
d) Describe the uses of a dimension paper

## QUESTION FIVE

i) Outline the term "variations"
ii) Outline any 'four" processes of valuing variations
iii) Describe any FOUR contact documents used in building contracts. (12marks)

Flat concrete recf


DRAWING NO CZ
Not tre Scale

## FLUSH DOOR. [INTERNAL]



DRAWING NO OZ
Not to scale.


