

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF BUILDING & CIVIL ENGINEERING UNIVERSITY EXAMINATION FOR:

CERTIFICATE IN BUILDING

EBC1202: CERTIFICATE IN QUANTITY SURVEYING 1I

END OF SEMESTER EXAMINATION

SERIES: AUGUST 2019

TIME: 2 HOURS

DATE: 2 AUGUST 2019

Instructions to Candidates

You should have the following for this examination

- -Answer Booklet,
- -examination pass
- -student ID
- Scientific Calculator

This paper consists of five questions.

Attempt any THREE questions.

Do not write on the question paper.

QUESTION ONE (20 Marks)

(a) Briefly explain the procedure of preparing bill of quantities by

'cut and shuffle method'

(14 Marks)

- (b) Define the following as used in method related charge.
 - (i) method related charges
 - (ii) Time related charges
 - (iii) Fixed charge

(14 Marks)

QUESTION TWO (20 Marks)

Take off quantities for a man –hole shown in figure **No.1**

Man-hole schedule

Internal	Cover	Invert	Invert	Step
Size	level	level	depth	irons
1200x750	100.00	98.90	1.10	4

QUESTION THREE (20 Marks)

Take off quantities for the internal window shown in figure No.2

QUESTION FOUR (20 Marks)

Take off quantities for walling above D.P.C in figure No.3

QUESTION FIVE (20 Marks)

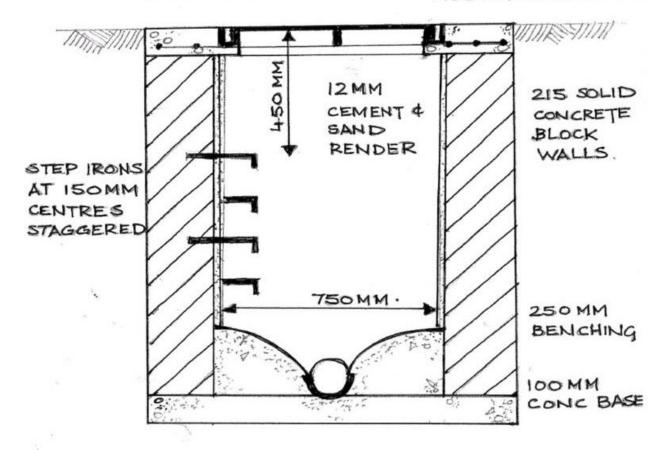
Take of quantities for the measurement of site clearance work shown in

figure No. 4 using CESMM

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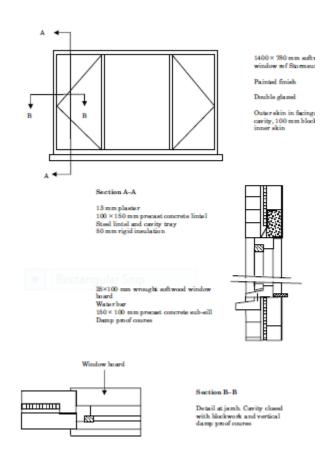
Manholes

LOVER & FRAME

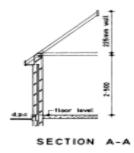


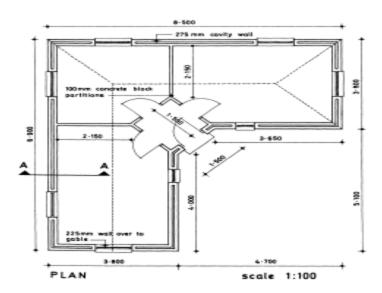
TYPICAL MANHOLE
DETAIL

DRAWING 1

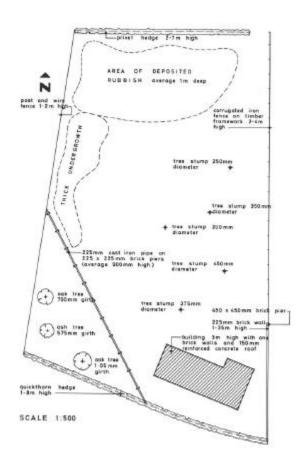


DRAWING NO 2





DRAWING 3



DRAWING 4