



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2018/2019 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER EXAMINATIONS

FOR DIPLOMA

IN

CIVIL ENGINEERING

COURSE CODE: DCE 088

COURSE TITLE: CIVIL ENGINEERING QUANTITIES

DATE: MONDAY 4TH FEBRUARY 2019 TIME: 9.00AM – 11.00AM

INSTRUCTIONS:

- i. Answer Question **ONE** and any other **TWO** Questions.
- ii. Marks for each question are indicated in the parenthesis.
- iii. Examination duration is **2 Hours**

MMUST observes **ZERO** tolerance to examination cheating

This Paper Consists of 4 Printed Pages. Please Turn Over

Question One - Compulsory

Take off the quantities of the drawing No. 03 up to sub structures (20 Marks)

Question Two

- a) **Illustrate** the use of the **FOUR** columns of the dimension paper (12 Marks)
- b) List eight reasons bills of quantities are preferred in civil and structural engineering contracts (8 Marks)

Question Three

- a) Discuss the **THREE** types of payment certificates used in civil engineering contracts (9 Marks)
- b) Illustrate what is meant by **GROUPING DESCRIPTIONS** in the dimension paper (6 Marks)
- c) Briefly explain the “**Cost plus**” contracts. (5 Marks)

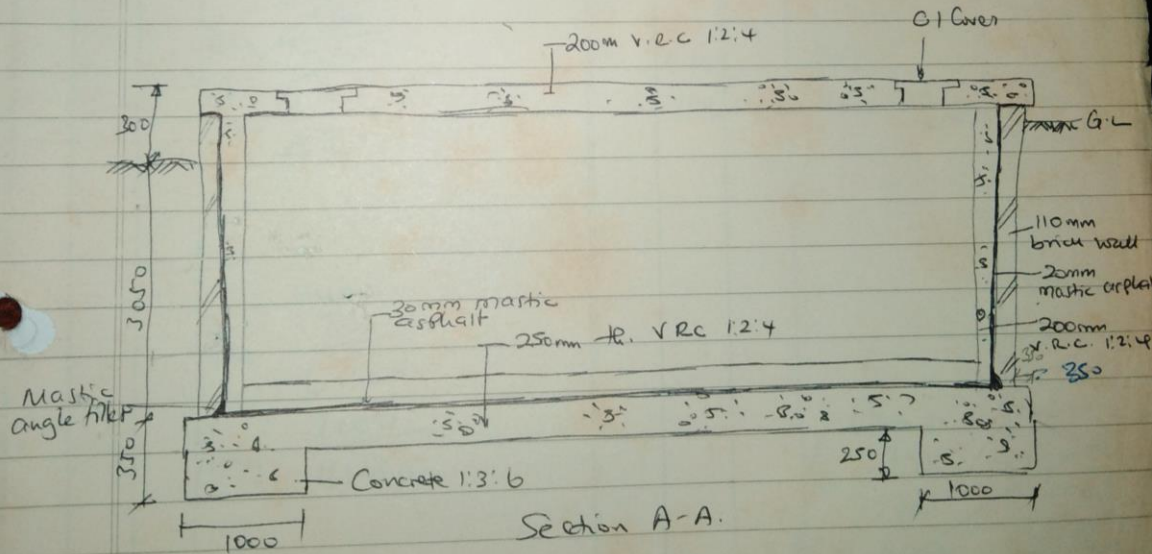
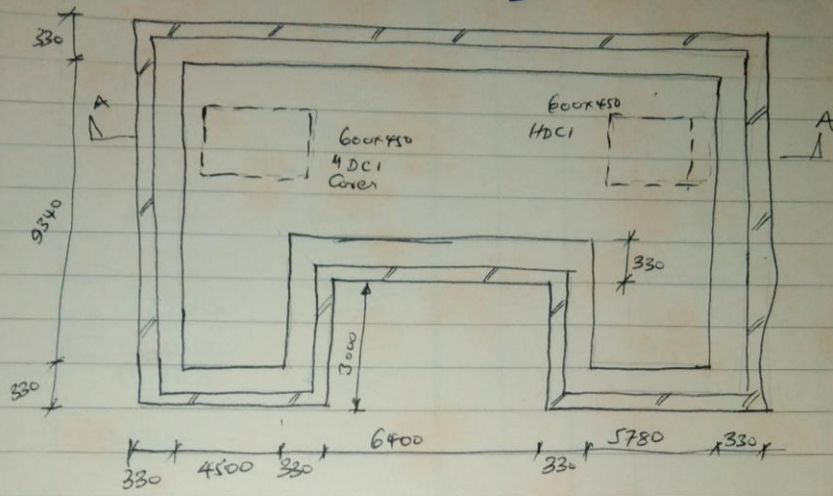
Question Four

Take off all the quantities for the drawing No. 04. (20 Marks)

Question Five

- a. Explain the term “**taking off**” in the bill preparation process (5 Marks)
- b. Outline five roles of the quantity surveyor during pre- construction stage. (5 Marks)
- c. Briefly explain the term **PRELIMINARIES** as used in the Bills of Quantities and give five items that fall under this. (10 Marks)

DRW No 03 - BASEMENT.

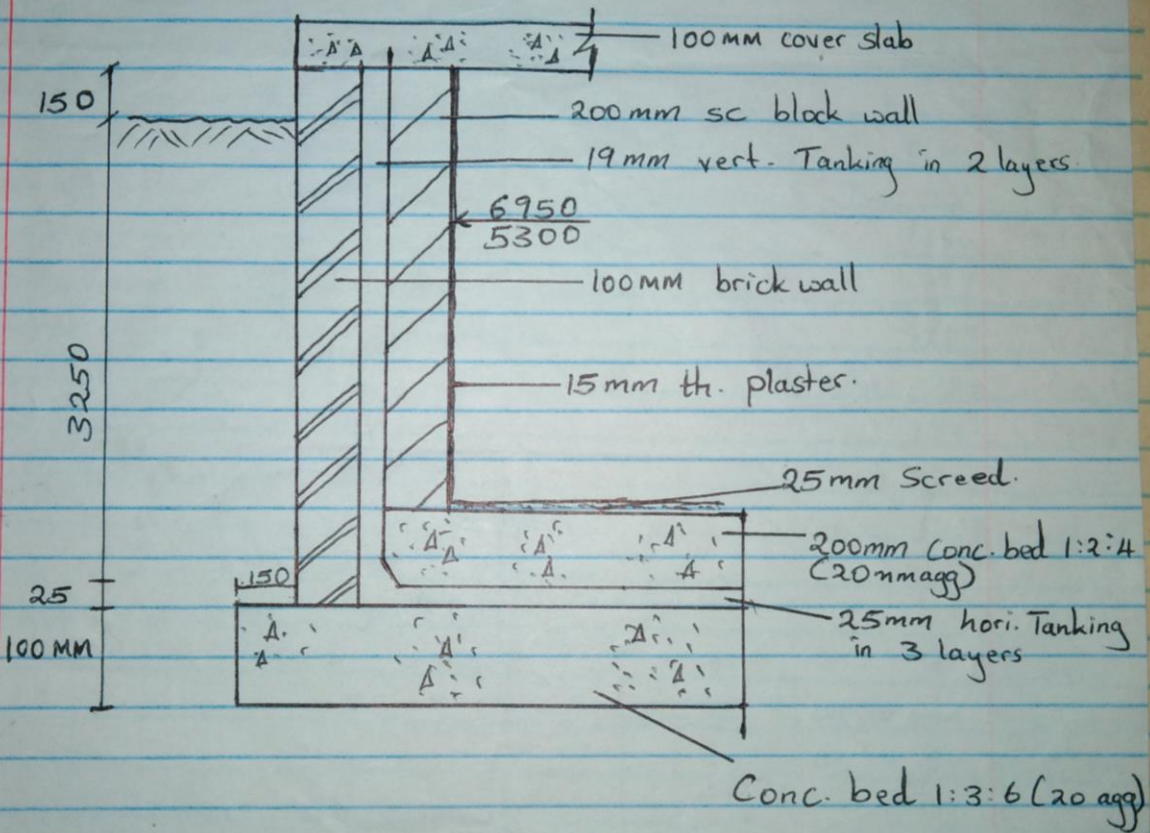


- Vegetable Soil 150mm to be preserved on site
- Ignore reinforcement

Take off all quantities for DWG No 06.

DRW No. 4

INTERNAL TANKING.



SPECIFICATIONS.

TOP SOIL AVERAGE 100 MM
ROCK LEVEL 2500 mm from
ground level.
STAIRCASE OPENING
2200 X 1450 mm