



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR THIRD YEAR FIRST SEMESTER EXAMINATIONS FOR THE DIPLOMA

IN

CIVIL ENGINEERING

COURSE CODE:

DCE 088

COURSE TITLE:

CIVIL ENGINEERING QUANTITIES

DATE:WEDNESDAY 27TH APRIL 2022 TIME:8.00AM - 10.00AM

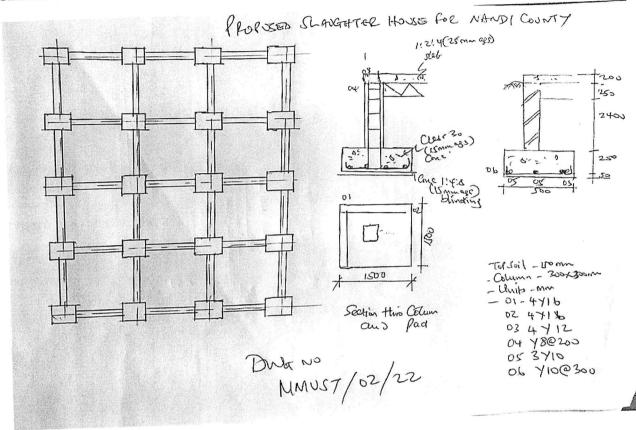
INSTRUCTIONS:

- a. Answer Question ONE any other TWO Questions
- b. Marks for each question are indicated in the parenthesis.
- c. Examination duration is 2 Hours
- d. Use of Mobile phones is NOT ALLOWED in the examination room.

MMUST observes ZERO tolerance to examination cheating This Paper Consists of 3 Printed Pages. Please Turn Over.

Question One (20 Marks)

Take off the quantities of the drawing No. MMUST/02/22 for the slaughterhouse up to sub structures (20 marks)

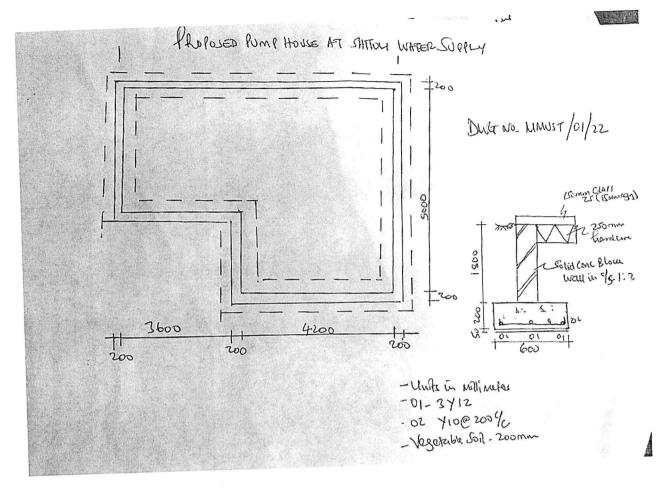


Question Two (20 Marks)

- a) Discuss the THREE types of payment certificates used in civil engineering contracts (9 Marks)
- b) Explain the term "taking off" in the bill preparation process (5 Marks)
- c) Illustrate how a wrong entry is corrected in the dimension paper (6 Marks)

Question Three (20 Marks)

Take off the quantities of the drawing No MMUST/01/22 for the pump house attached (20 Marks)



Question Four (20 Marks)

- a) Illustrate the use of the FOUR columns of the dimension paper
- b) List seven reasons bills of quantities are preferred in civil and structural engineering contracts (7 Marks)

Question Five (20 Marks)

- a) State *THREE* functions of the Quantity surveyor in each of the following stages (12 Marks)
 - i. Design stage
 - ii. Tendering stage
 - iii. Construction stage
 - iv. Post construction.
- b) Briefly explain why *QUERRY SHEET* is used when taking off.
- (5 Marks)

(13 Marks)

- a) Outline *THREE* contents that form the Bills of Quantities.
- (3 Marks)