UGANDA CDARTYRS UNIVERSITY

FORT PORTAL CAMPUS

FACULTY:

ENGINEERING AND APPLIED SCIENCE

DEPARTMENT: DEPARTMENT OF CIVIL ENGINEERING

COURSE CODE: BCE3103: COURSE NAME: QUANTITY SURVEYING AND ESTIMATES

FINAL ASSESSMENT

ACADEMIC YEAR 2023/2024 SEMESTER I

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Date of Examination: 13TH DECEMBER 2023

Time allowed: 3 hours (9:00Am - 12:00Pm)

Instructions to Candidates:

Read the following before answering the examination questions.

- 1. This Exam contains Six (6) questions.
- 2. Question One and Two are compulsory.
- 3. Answer any two (2) questions of the remainingones.
- Attach all Question Papers on the answer booklets.
- 5. All Questions carry equal marks.
- 6. Show all the necessary workings.
- 7. Start each question on a fresh page.
- 8. Read other instructions on the answer booklet.
- 9. Do NOT write anything on this question paper.

You should have the following in this Examination.

Answer Booklet, Drawing instruments, graph papers, non-programmable calculator and IEE Tables for the current ratings and voltage drops, 17th edition.

(3 marks) Question One (25 Marks) a) Define taking-off and explain why it is important? b) Write brief notes on each of the following: -(5 marks) (3 marks). a. Dimension Paper (5 marks) b. SMM and its importance c) List down five basic forms of dimensions used in measurements. (4 marks). e) It is advisable to make an initial site visit before starting any measurements. Mention d) Briefly Explain the traditional system of measurement. 5 aspects that should be noted during the initial site visit. With illustrations, explain each of the following processes in setting down dimensions Ouestion Two (25 marks) (4 marks) in paper based taking off. (4 marks) i. Dotting On (4 marks) ii. Alterations to dimensions (4 marks) iii. Timesing (4 marks) iv. Anding-on v. Deductions b) Explain the following principles in taking-off: (2 marks) (2 marks) i. Extra Over

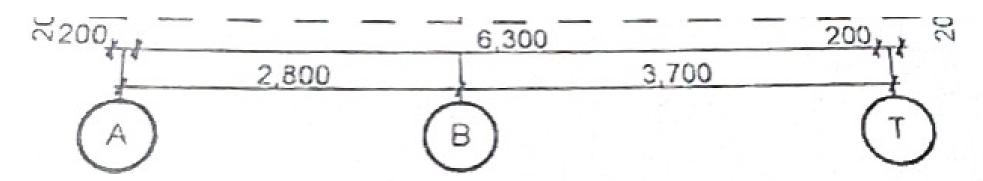
iii. Provisional Sum Study the attached drawing and assumptions below and carefully answer the following Ouestion Three (25 marks) questions.

ii. Prime cost

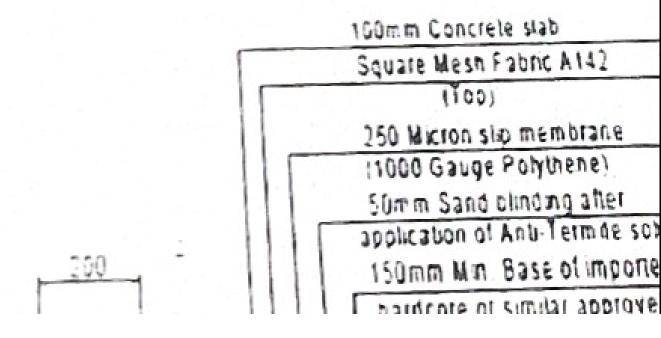
(5 marks) a) Compute the mean girth for the plinth walling.

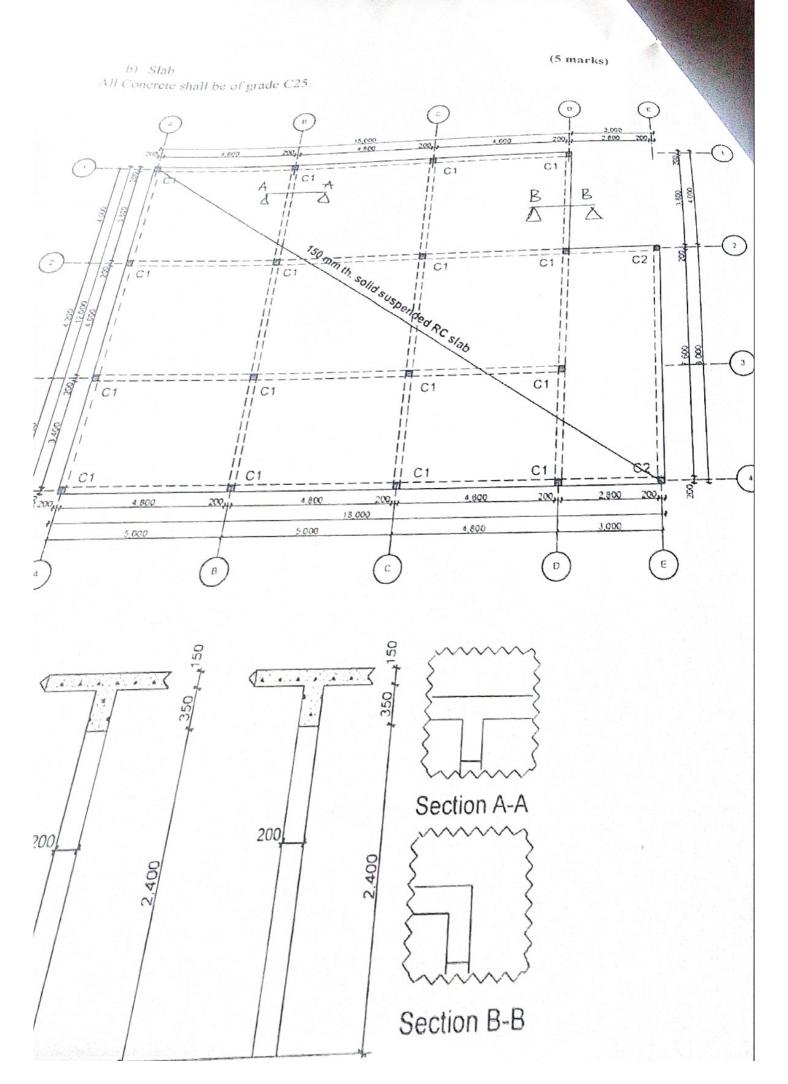
b) Take off for site preparation, foundation and plinth walling up to oversite slab. Please note that the site has termite nests, bushes, and undergrowth, 2 acacia trees with girth 450 mm, 500mm, and 750mm, one tree stump 1.5m high with girth 750 mm, 150mm topsoil to be preserved in heaps. Site is sloping 1in10. Concrete shall be of grade C25. (20 marks).

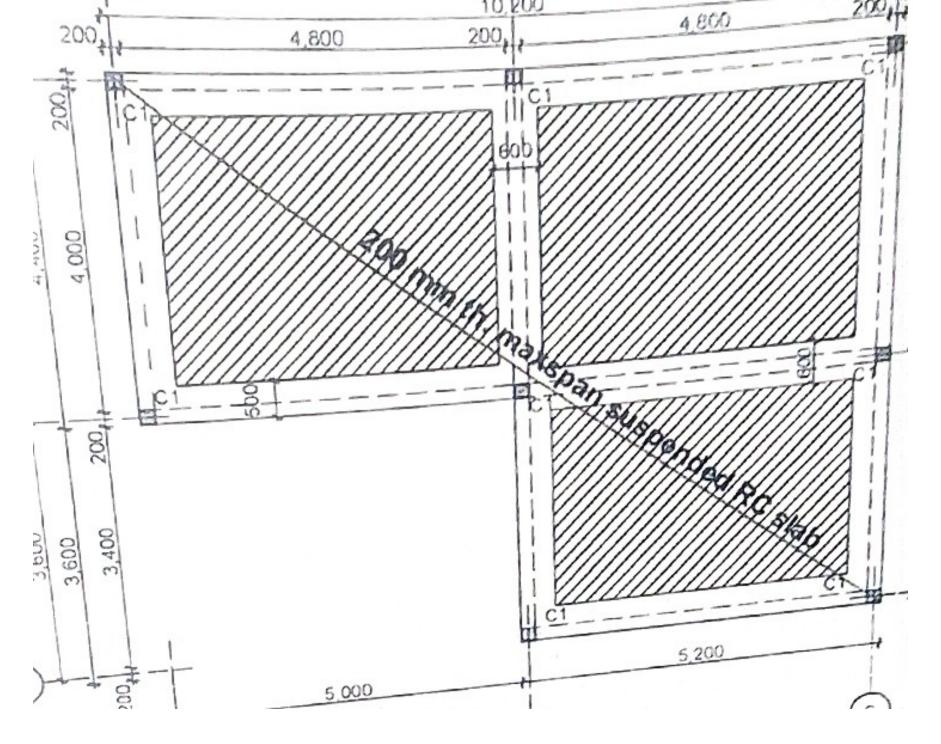
(1 marks)



FOUNDATION LAYOUT FOR GATE HOUSE (Scale 1:50)







be measured.	(3 marks)
les how each of the following can be measured.	(3 marks)
Removing off tree stumps	(2 marks)
. Disposal of excavated material	(2 marks)
iii. Excavating rock	(2 marks)
iv. Damp proof course	(3 marks)
v. Disposal of water	frica explain why
v. Disposal of water vi. Formwork to suspended floor slab, 4.5 m high (soffit to floor vi. Formwork to suspended Method of Measurements of East A	(3 marks)
With reference to the standard.	(4 marks).
With reference to the Standard Method of Standard M	project (3 marks)
an SMM is important in preparation of a Define waste calculations used in setting down dimensions. State any three roles of a quantity surveyor on typical construction.	project.
State any three roles of a quantity survey	

END