



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 - Meru-Kenya.

 $Tel: 020\text{-}2069349, 061\text{-}2309217. \ 064\text{-}30320 \ Cell \ phone: +254\ 712524293, +254\ 789151411$

Fax: 064-30321

Website: www.must.ac.ke Email: info@must.ac.ke

University Examinations 2015/2016

THIRD YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN CIVIL ENGINEERING

ECV 2350: CIVIL ENGINEERING QUANTITIES II

DATE: APRIL 2016 TIME: 1 ½ HOURS

INSTRUCTIONS: Answer question **one** and any other **two** questions

QUESTION ONE (30 MARKS)

Use the attached drawing to:

- (i) Take off all quantities
- (ii) Abstract quantities
- (iii) Prepare a bill of quantities (BQ) of all the substructure shown upto and including D.Pc.

Assume your own rates for the bill of quantities. (30 marks)

QUESTION TWO (15 MARKS)

The 'unit rates' in a bill of quantities submitted by contractors while bidding for tenders may vary widely.

(i) What are these unit rates? (1 mark)

(ii) Explain SEVEN possible causes of the variation or disparity (14 marks)

QUESTION THREE (15 MARKS)

a) Explain two objectives of approximate estimating for each of the following:

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(i) The client

(ii) The Architect (8 marks)

b) Explain why tow methods of tendering for civil engineering works (7 marks)

QUESTION FOUR (15 MARKS)

Explain the duties and responsibilities of the following parties in a building and civil engineering contract:

- (i) The client
- (ii) The architect
- (iii) The structural engineer
- (iv) The contractor
- (v) The local authority (15 marks)