



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2016/2017
SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE

HEH 303: BUILDING AND CONSTRUCTION TECHNOLOGY

DATE: MONDAY 8TH MAY 2017

TIME: 11.00 A.M. - 1.00 P.M.

INSTRUCTIONS

This paper consists of two sections A and B

Answer Question One (compulsory) in Section A

1. a) Highlight important documents that should be found in a construction site indicating their usefulness (10 marks)
- b) The design of the foundation can be considered as a series of steps or stages, briefly discuss such steps highlighting important aspects for each step. (10 marks)

SECTION B

Answer Question ONE and any other Two Questions

1. a) Illustrate the symbols representing the following construction materials
i) Bricks and Brick masonry
ii) Stone and Stone Masonry
iii) Wood and Plywood
iv) Partition Blokes
v) Plaster and Plaster products (10 marks)
- b) Briefly discuss the site layout considerations or investigation in the construction process. (10 marks)

2. a) Briefly discuss the following construction materials indicating their Characteristics (9 marks)
- i) Masonry Stones
 - ii) Brick
 - iii) Cement
- b) Briefly outline reasons behind the need for structural strengthening of concrete structures (6 marks)
3. a) Briefly discuss the effects of dampness in a building (6 marks)
- b) Using a well labeled sketch, draw and label a staircase showing the following (9 marks)
- i) Landing
 - ii) Riser
 - iv) Step
4. Cost estimation of construction project is a very complex process containing many variable factors. Briefly discuss such factors that might assist you to estimate the cost of a building project. (15 marks)