



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)

University Examinations for 2014/2015

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

SECOND SEMESTER EXAMINATION FOR DIPLOMA IN BUILDING
CONSTRUCTION TECHNOLOGY

BCE CD: 118 BUILDING TECHNOLOGY I

DATE: 2/4/2015

TIME: 2:00 – 4:00 pm

Instructions

- *This paper consists of five questions*
- *Question one is compulsory and carries 30 marks*
- *Answer any other two question which carry 20 marks each*
- *Maximum marks for each part of a question are as shown.*

1. a) Briefly describe the evolution of the built environment (5 marks)
b) Explain four stages involved in the building process. (8 marks)
c) Describe the stages involved in site clearance. (4 marks)
d) Make a neat sketches of a timber corner profile board. (5 marks)
e) State four functional requirements of a good foundation. (4 marks)
f) Name and make neat sketches of two forms of wall construction. (4 marks)
2. a) With aid of neat sketches, differentiate between a door frame and a door lining (10 marks)
b) make a neat sketch of a window frame and name all the parts. (10 marks)
3. A) Outline five functional requirements of ground floors. (10 marks)
b) Explain the term “demolition” and the steps to be undertaken before any demolition is carried out. (10 marks)

4. A) briefly explain the activities involved in site clearance. (10 marks)
- b) Explain two aims of setting out. (4 marks)
- c) Outline three functions of a roof. (6 marks)
5. Make neat sketches of the following types of single roofs:
- a) Lean-to roof
- b) Couple roof
- c) Closed roof
- d) Collar roof (20 marks)