



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING & TECHNOLOGY
DIPLOMA IN BUILDING AND CIVIL ENGINEERING

END OF SEMESTER EXAMINATIONS

MAY 2016

EBC 2109: BUILDING TECHNOLOGY I

Instructions: Answer any **THREE** questions.

Time: 2 hours

QUESTION ONE

- a) Briefly explain the evolution of built environment (10 marks)
- b) Outline FIVE factors that determine the nature of built environment (5 marks)
- c) Briefly outline the building construction process (5 marks)

QUESTION TWO

- a) Explain the role of the following in the construction process (10 marks)
 - 1. Architect
 - 2. Structural Engineer
 - 3. Quantity Surveyor
 - 4. The Client
 - 5. The clerk of works
- b) Define quality control as applied in construction works (2 marks)
- c) Outline FOUR reasons for quality control in construction works (8 marks)

QUESTION THREE

- a) Outline FIVE reasons for carrying out site investigation (5 marks)
- b) (i) Define the term foundation (5 marks)
(ii) State THREE purposes for construction of a foundation (10 marks)
- c) Outline FOUR major types of foundations (10 marks)



QUESTION FOUR

a) Draw a wall opening and indicate the following:

1. Soffit
2. Reveal
3. Jamb
4. Sill
5. Head

(20 marks)

QUESTION FIVE

a) State FOUR equipment used on construction site during setting out

(2 marks)

b) Outline FOUR functional requirements of floors

(2 marks)

c) Outline FOUR types of stairs

(4 marks)

d) Outline THREE factors that influence the choice of a roof structure

(2 marks)

e) Draw and label a ledged, braced and battened door

(10 marks)

