TECHNICAL UNIVERSITY OF MOMBASA

## FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING
DIPLOMA IN BUILDING AND CIVIL ENGINEERING
EBC 2107: BUILDING TECHNOLOGYI- 2
END OF SEMESTER EXAMINATION
SERIES: AUGUST 2019
TIME: 2 HOURS

## INSTRUCTIONS TO CANDIDATES

You should have the following for this examination

- Answer booklet
- Scientific calculator

This paper consists of FIVE questions
Answer any THREE questions
Use neat, large and well labeled diagrams where required
Maximum marks for each part of a question are as shown
This paper consists of TW0 printed papers.

## QUESTION ONE

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

## QUESTION TWO

a) Explain the role of the following in the construction process

1. Architect
2. Structural Engineer
3. Quantity Surveyor
4. The Client
5. The clerk of works (10 marks)
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
b) Define the term foundation and state THREE purposes for its construction(5 marks)
c) State FOUR major types of foundations
d) Define the term setting out and list SIX tools used to carry it out

## 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 marks)
b) Outline FOUR functional requirements of floors
c) Outline FOUR types of stairs
(4 marks)
d) Outline THREE factors that influence the choice of a roof structure
e) Draw and label a ledged, braced and battened door

