



TECHICAL UNIVERSITY OF MOMBASA
**Faculty of Engineering &
Technology**

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
DIPLOMA IN BUILDING & CIVIL ENGINEERING (DBC 11)

EBC2206: BUILDING TECHNOLOGY II & SERVICES

END OF SEMESTER EXAMINATION

SERIES: APRIL 2013

TIME ALLOWED: 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

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

Question One

- a) Explain the importance of framed structures. **(10 marks)**
- b) With the aid of sketches, explain the construction of non self supporting upper floor **(10 marks)**

Question Two

- a) With the aid of sketches, explain the operation of a fireplace. **(10 marks)**
- b) Define:
 - (i) Skirting
 - (ii) Cornice
 - (iii) Dado rails
 - (iv) Door lining
 - (v) Hearth **(10 marks)**

Question Three

- a) With the aid of sketches, explain the procedure of fixing a wooden skirting. **(10 marks)**
- b) Sketch the following in relation to framed structures.
 - (i) Bloom base
 - (ii) Splice of a portal frame
 - (iii) Gusset base
 - (iv) PCC truss **(10 marks)**

Question Four

- a) Explain the process of producing concrete for constructing a framed structure. **(10 marks)**
- b) Explain the significance of using steel reinforcement in concrete work. **(10 marks)**

Question Five

- a) Explain the procedure of constructing an upper non-self centering floor. **(10 marks)**
- b) Describe the following:
 - (i) Metal laths
 - (ii) Cladding **(10 marks)**