



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

DIPLOMA IN ARCHITECTURE

DIPLOMA IN BUILDING & CIVIL ENGINEERING

DIPLOMA IN CIVIL ENGINEERING

EBC 2132: BUILDING TECHNOLOGY I

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: OCTOBER 2012

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
Maximum marks for each part of a question are as shown
This paper consists of **TWO** printed pages

Question One (20 Marks)

- a) Sketch and explain the use of a profile board. **(10 marks)**
- b) Explain the care to be observed when excavating trenches for foundations. **(10 marks)**

Question Two (20 Marks)

- a) Sketch and label the parts of the following:
i) Cavity wall
ii) Random rubble wall
iii) Monolithic wall **(10 marks)**
- b) Sketch and label the parts of a solid ground floor. **(10 marks)**

Question Three (20 Marks)

- a) Explain the role of the following:
i) Structural Engineer
ii) Architect
iii) Clerk of works **(10 marks)**
- b) With the aid of a sketch, outline the construction of a flush door. **(10 marks)**

Question Four (20 Marks)

- a) Sketch and label the following:
i) Timber stair
ii) Stair well
iii) Stair winders
iv) Dog leg stair
v) Nosing **(10 marks)**
- b) Explain the following types of floor finishes.
i) Granolithic
ii) Terrazzo
iii) Screed **(10 marks)**

Question Five (20 Marks)

- a) With the aid of sketches, explain the need for wide strip foundation. **(10 marks)**
- b) Explain the need for training people in the building industry. **(10 marks)**