

THE TECHICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

DIPLOMA IN ARCHITECTURE (DA 12J) DIPLOMA IN BUILDING & CIVIL ENGINEERING (DBC 12J)

EBC 2105: BUILDING TECHNOLOGY I

SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: FEBRUARY 2013

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 a)** Outline the roles of the following in the building team. Architect (i) (ii) Structural engineer Quantity surveyor (iii) Clerk of work (iv) (10 marks) **b)** Sketch and label the following types of foundations: Wide strip (i) (ii) Raft (iii) Pad (10 marks) **Question Two a)** Explain the importance of soil investigation on site. (10 marks) **b)** Sketch the following types of walls: Cavity wall (i) Random rubble (ii) (iii) Flint (iv) Monolithic (10 marks) **Question Three** a) Sketch and label the parts of a timber stair. (5 marks) b) Sketch the following: (i) Straight flight Launching (ii) (iii) Winder (iv) Dog leg stair Staircase (10 marks) (v) c) Outline the roles of a supervisor of construction works on site. (5 marks) **Question Four** a) Sketch and label the following types of doors: (i) Panel Ledged, battened and braced (10 marks) (ii) b) With the aid of sketches, differentiate; Dependent Scaffolding from Independent Scaffolding. (10 marks) **Question Five**

a) With the aid of a sketch, describe the construction of solid ground floor.

(10 marks)

D)	Sketch and label the indirect domestic cold water system.	(10 marks)
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