

THE TECHICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

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

EBC 2515: BUILDING TECHNOLOGY II

SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: FEBRUARY 2013

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

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 **Ouestion One** a) With the aid of a sketch, outline the working of a fire place. (10 marks) **b)** State **FIVE** causes of failure of a chimney. (5 marks) c) State the use of the following in a fire place: **Throat** (i) (ii) Hearth (iii) Flue (iv) Fire back Gathering (5 marks) **(v) Ouestion Two** a) With the aid of a sketch, outline the fixing of a wooden skirt in a room. (10 marks) b) With the aid of a sketch, explain the process of plastering a block wall. (10 marks) **Ouestion Three** a) Differentiate the following: Cornice from Skirting (i) Door frame from Door Lining (ii) False ceiling from dado rails (iii) Plastering from rendering (iv) Carpenter's 2nd fixing from Interior design. (v) (10 marks) b) With the aid of a sketch, explain the construction of a self centering upper floor. (10 marks) **Question Four** a) (i) State FIVE advantages of framed structures. (ii) Explain the preparation of a pad foundation for a framed structure. (10 marks) b) Sketch the following in relation to framed structures, Gusset base (i) (ii) Bloom base (iii) Typical PCC Splice of a portal frame (10 marks) (iv) **Ouestion Five** a) With the aid of a sketch describe the construction of a non-self centering upper floor. (10 marks) b) Define the following: Cladding (i)

Curtain walling

(ii)

- (iii) (iv)
- Facings Precast units
- (v) Metal lath

(10 marks)