



TECHNICAL UNIVERSITY OF MOMBASA

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SCHOOL OF ENGINEERING AND TECHNOLOGY  
DEPARTMENT OF BUILDING & CIVIL ENGINEERING  
UNIVERSITY EXAMINATION FOR:

CERTIFICATE IN BUILDING AND CIVIL ENGINEERING  
**EBC 1205 : BUILDING TECHNOLOGY II(A)**

END OF SEMESTER EXAMINATION

**SERIES: APRIL 2021**

**TIME: 2 HOURS**

**Instructions to Candidates**

You should have the following for this examination

*-Answer Booklet, examination pass and student ID*

This paper consists of **five** questions.

Attempt any **THREE** questions.

**Do not write on the question paper.**

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**QUESTION ONE**

- a) Define the following terms as used in fireplaces and chimneys:
1. Hearth
  2. Fireback
  3. Throat
  4. Chimney
  5. Breast
- (10 marks)
- b) State FIVE functional requirements of a chimney (10 marks)

**QUESTION TWO**

- a) State FIVE suitable materials for dry lining (5marks)
- b) State the advantages of dry lining fixing in construction. (5marks)
- c) Explain the term carpenter's second fixing (5marks)
- d) State FIVE constructional components that are described as Carpenter's Second fixing (5marks)

**QUESTION THREE**

- a) Define the term painting and state THREE ingredients of a standard paint (5marks)
- b) State FIVE reasons for applying paint (5 marks)
- c) State FIVE different types of paints used in construction (5 marks)

- d) State FIVE methods of applying paint (5marks)

#### **QUESTION FOUR**

- a) State FOUR functional requirements of walls (4marks)  
b) Briefly explain the term masonry wall (2marks)  
c) List FIVE materials used in wall formation (5marks)  
d) State the difference between plain concrete wall and reinforced concrete wall. (3marks)  
e) State SIX qualities of good formwork for concrete (6marks)

#### **QUESTION FIVE**

- a) Define the following:  
• Cladding  
• Curtain walling  
• Facing (10marks)
- b) Draw and label a cross-section of formwork to a beam (10marks)