



# MACHAKOS UNIVERSITY

University Examination 2018/2019

**SCHOOL OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF BUILDING AND CIVIL ENGINEERING**  
**FIRST YEAR SECOND SEMESTER EXAMINATION FOR CRAFT**  
**CERTIFICATE IN BUILDING**

**1704: MASONRY TECHNOLOGY**

**DATE:**

**TIME:**

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**INSTRUCTIONS:**

**ANSWER ALL QUESTIONS**

1. Sketch the following types of masonry tools (20 marks)
  - i) Trowel
  - ii) Club hammer
  - iii) Claw hammer
  - iv) Ball pein hammer
  - v) Plumb-bob
  
2. Make neat sketches of the following types of walling in brickwork (20 marks)
  - i) Flemish bond
  - ii) English bond
  
3.
  - a) Differentiate between a damp proof course and a damp proof membrane (6 marks)
  - b) State at least FIVE safety precautions to be observed in a workshop (10 marks)
  - c) Differentiate between mass concrete and reinforced concrete (4 marks)
  
4.
  - a) Make a neat sketch of a corner profile board and name all the parts (10 marks)
  - b) Briefly explain the following terminologies as applied in wall finishes (10 marks)
    - i) Pointing
    - ii) Jointing

- iii) Rendering
- iv) Rough cast
- v) filing

5. a) State and briefly describe any TWO methods of setting out (10 marks)
- b) Sketch the following types of foundations (10 marks)
- i) pad foundation
  - ii) deep strip foundation