



# 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 TECHNOLOGY**

**MASONRY**

**DATE: 24/4/2019**

**TIME: 11.30-2.30 PM**

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## **INSTRUCTIONS**

### ***ANSWER ALL THE FIVE QUESTIONS***

1. Sketch the following types of masonry tools (20 marks)
  - a) Trowel
  - b) Club hammer
  - c) Claw hammer
  - d) Ball peen hammer
  - e) Plumb-bob
2. Make neat sketches of the following types of walling in brickwork (20 marks)
  - a) Flemish bond
  - b) 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