



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:

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