



TECHNICAL UNIVERSITY OF MOMBASA

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

FACULTY OF ENGINEERING AND TECHNOLOGY

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN BUILDING AND CIVIL ENGINEERING

EBC 2104: WORKSHOP TECHNOLOGY AND PRACTICE 11

END OF SEMESTER EXAMINATIONS

Series: APRIL 2019

Time 2 hours

Instructions to candidates

You should have the following for this examination

- Answer booklet
- Examination pass
- Student ID

This paper consists FIVE questions. Answer THREE questions

DO NOT WRITE ON THE QUESTION PAPER

QUESTION ONE

- a) Explain the importance of reinforced concrete in construction of buildings (5 marks)
- b) Sketch and outline the importance of bonded walls (5 marks)
- c) Sketch and explain the procedure of plastering a block wall (10 marks)

QUESTION TWO

- a) Sketch and outline the use of five hand tools used in masonry ((10 marks)
- b) Sketch and label the parts of a solid ground floor (5 marks)
- c) State five reasons of observing safety environment in building sites (5 marks)

QUESTION THREE

- a) Sketch a front view of a four course wall built in Flemish bond (5 marks)
- b) State five qualifications of a building supervisor (5 marks)
- c) Outline the importance of each of the material that make concrete (5 marks)
- d) Outline the differences between engineering brick and fire bricks (5 marks)

QUESTION FOUR

- a) Name and state the use of four carpentry and joinery hand tools (8 marks)
- b) Sketch four types of timber and joinery joints (8 marks)
- c) Differentiate rebate plane from bullnose plane (4 marks)

QUESTION FIVE

- a) Sketch four types of hinges (8 marks)
- b) Sketch and label the parts of a door frame (4 marks)
- c) Differentiate a nail from a screw (2 marks)
- d) Explain how profit margin may be affected by accidents in industries (6 marks).