



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ARCHITECTURE & BUILT ENVIRONMENT UNIVERSITY EXAMINATION FOR: DIPLOMA IN ARCHITECTURE

EBC 2104 : WORKSHOP TECHNOLOGY 11
SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: SEPTEMBER 2018

TIME: 2 HOURS

DATE: SEP 2018

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 ALL questions.

Do not write on the question paper.

QUESTION ONE

- a) Outline six factors to be observed in a workshop to avoid accidents (6 marks)
- b) State four advantages of bonding a wall (4 marks)
- c) With the aid of a sketch outline the procedure of plastering a block wall (10 marks)

QUESTION TWO

- a) State four qualities of good bricks (4 marks)
- b) Outline the procedure of setting out a rectangular building (8 marks)
- c) Sketch and label the parts of a front view of a wall built in English bond (8 marks)



QUESTION THREE

- a) Sketch and label the parts of a solid ground floor (6 marks)
- b) Identify the signs of maximum compaction in concrete work (4 marks)
- c) Define the following (4 marks)
- i. mortar
 - ii. screed
 - iii. aggregate
 - iv. bond
- d) Sketch and state the use of the following tools (6 mark)
- i. jointer
 - ii. steel float
 - iii. internal angle plate
 - iv. straight edge

QUESTION FOUR

- a) Sketch the following timber joints (6 marks)
- i. bird's mouth
 - ii. plain scarf
 - iii. tongue and groove
- b) Name four timber defects (4 marks)
- c) State the use of each of the following tools as used in carpentry (4 marks)
- i. sanders
 - ii. band saw
 - iii. rebate plane
 - iv. lathe
- d) Explain the procedure of storing timber in a construction site (6 marks)

QUESTION FIVE

a) Explain the procedure of fixing a door frame to a wall opening

(10 marks)

b) Outline six hazards that may occur when using a lathe machine

(6 marks)

c) State four objectives of an induction course to a new employee

(4 marks)