



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

DIPLOMA IN BUILDING AND CIVIL ENGINEERING

EBC 2104: WORKSHOP TECHNOLOGY & PRACTICE II

END OF SEMESTER EXAMINATION

SERIES: APRIL 2016

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination

- Answer booklet

This paper consists of **FIVE** questions

Answer any other **THREE** questions

Use neat, large and well labelled diagrams where required

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed papers.



QUESTION ONE

- a) With the aid of sketches differentiate between a try square and a mitre square **(8 marks)**
- b) State the **SIX** steps you would follow when preparing timber by hand using jack plane **(12marks)**

QUESTION TWO

- a) State the uses of the following fittings used in scaffoldings:
 - i. Reveal pin
 - ii. Base plate
 - iii. Swivel coupler
 - iv. Double coupler
 - v. Putlog coupler **(10 marks)**
- b) Show with sketches the difference between an independent scaffold and putlog scaffold **(10marks)**

QUESTION THREE

- a) What are the **FOUR** purposes of a bond in brickwork? **(8 marks)**
- b) Briefly differentiate the terms plastering and rendering **(2marks)**
- c) State **FIVE** requirements of a good mortar **(10marks)**

QUESTION FOUR

- a) With the aid of sketches, differentiate between a gauge and a gouge, stating the use of each **(10marks)**
- b) Show with sketches, a dovetail having and cross-halving joint. **(10marks)**

QUESTION FIVE

- a) Name **FOUR** advantages and disadvantages of block work over brickwork **(8 marks)**
- b) Show with sketches the difference between a steel float and wooden float. **(12 marks)**