

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF ENGINEERING AND TECHNOLOGY UNIVERSITY EXAMINATION FOR DIPLOMA IN BUILDING AND CIVIL ENGINEERING 1ST YEAR 1ST SEMESTER 2015/2016 ACADEMIC YEAR

MAIN

COURSE CODE: TBC 2111

COURSE TITLE: WORKSHOP TECHNOLOGY I

EXAM VENUE: STREAM: (Dip. Building & civil engineering)

DATE: EXAM SESSION:

TIME: 1¹/₂ HOURS

Instructions:

1. Answer Question ONE (COMPULSORY) and ANY other 2 questions

- 2. Candidates are advised not to write on the question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the room

QUESTION ONE

- a) State SIX safety rules that are applicable in any workshop of your choice. (6 marks)
- b) List FOUR tools used in Masonry practice.

(4 marks)

- c) With the aid of a neat sketch explain any TWO joints used in joinery works. (6 marks)
- d) State any TWO requirements of formwork.

(4 marks)

QUESTION TWO

- a) With the aid of appropriate sketches distinguish between queen closer and king closure (4 marks)
- b) Sketch one brick wall, Flemish bond brick laying.

(6 marks)

QUESTION THREE

- a) Using a neat sketch, explain how bonding is achieved in masonry walling. (6 marks)
- b) Distinguish between uncoursed and coursed random rubble stone masonry. (4 marks)

OUESTION FOUR

(a) State any FOUR properties of a good mortar.

(4 marks)

(b) State any THREE plastering failures and explain their causes.

(6 marks)

QUESTION FIVE

- (a) Explain the functions of the following carpentry tools
 - i. Dovetail saw
 - ii. Try plane
 - iii. Brace
 - iv. Mallet

(4 marks)

(b) Sketch TWO types of timber doors.

(6 marks)