



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)

University Examinations 2015/2016

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

SECOND SEMESTER EXAMINATION FOR CERTIFICATE IN BUILDING

CONSTRUCTION TECHNOLOGY

BCEBT 214: ENGINEERING DRAWING IV

Date: 21/4/2016

Time: 2:00 – 4:00 PM

INSTRUCTIONS

This paper consists of FIVE questions

Answer question one and other two questions in this paper.

QUESTION ONE

- (a) Make neat diagrammatic sketches to show the convention symbols for the following building materials;
- Natural stone
 - Wrot timber
 - Unwrot timber
 - Concrete
 - Brick
- (10 marks)
- (b) Fig 1. Shows a block in 1st angle orthographic projection. Draw the block in one-point perspective drawing
- (10 marks)

QUESTION TWO

Fig 2. Shows a block in 1st angle orthographic projection. Draw the block in Two-point perspective drawing (20 marks)

QUESTION THREE

Fig 3. Shows two views of a wooden block and its perspective layout. Copy the layout and draw the block in two-point perspective drawing (20 marks)

QUESTION FOUR

Make neat sketches to show the following types of foundations

- a) Traditional strip foundation
- b) Raft foundation (20 marks)

QUESTION FIVE

Make neat sketches to show the following types of foundations to show the following types of single roofs showing their maximum spans;

- a) Couple roof
- b) Closed couple roof
- c) Collar tie roof
- d) King post (20 marks)