



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

BACHELOR OF SCIENCE IN BUILDING & CIVIL ENGINEERING

ECE 2207 : ENGINEERING DRAWING III

END OF SEMESTER EXAMINATION

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer booklet*

This paper consists of **FOUR** questions in **TWO** sections **A & B**

Answer question **ONE (COMPULSORY)** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **THREE** printed pages

SECTION A (COMPULSORY)

Question 1

- a) Name the **FIVE** elements of the typical timber roof truss shown in fig 1 (10 marks)

Fig 2

- b) Draw the typical manhole chamber flow channelization for
- (i) Single curve flow (3 marks)
 - (ii) 3-way flow (3 marks)
 - (iii) 4 – way flow (4 marks)
- c) Sketch a typical road pavement gravel and wiremesh sediment filter (10 marks)

SECTION B (*Answer any TWO questions from this section*)

Question 2

- a) Draw the following typical timber joints
- (i) SCARFED (bolted) splicing joint (10 marks)
 - (ii) Re-draw and show the bolting on the heel joint shown in figure 2 (10 marks)

Question 3

Draw the section A-A of the road catch drain type 2 shown in figure 3

(20 marks)

Question 4

Draw the typical road pavement vertical curb and gutter (show the standard dimensions) (20 marks)

