



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)
University Examinations for 2014/2015 Academic Year

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING
Second Semester Examination for Bachelor of Science in Civil Engineering
ECV100 – ENGINEERING DRAWING I

Date: 31/3/2015

Time: 8:30 am -10:30 am

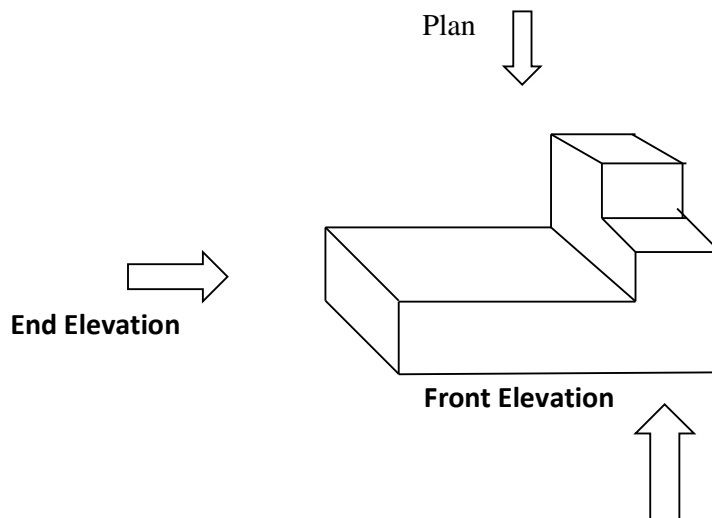
Instructions

1. Question One is **COMPULSORY**
2. **Attempt any other TWO**
3. **Marks are as shown**

Q.1a) discuss the 1st and 3^d angle projections (8 marks)

b) Using a suitable scale draw the figure below using either 1st angle projection

(22 marks)



Q2 With aid of neat sketches and examples describe the following: i) Isometric, ii) Dimetric and iii) Trimetric projections, iv) Types of lines. v) Techniques of lettering vi) Geometric construction (20 marks)

Q3 a) Demonstrate with sketches, the process of dividing a given line into equal Measurements. (8 marks)

b) Using a suitable scale, construct a NINE sided polygon with a base side of 40mm (12 marks)

Q 4. a) Discuss the Artistic and Technical drawings (10 marks)

b) Discuss the purposes and types technical drawing. (10 marks)