



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)
University Examinations for 2015/2016 Academic Year

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SECOND SEMESTER EXAMINATION FOR DIPLOMA IN ELECTRICAL AND
ELECTRONICS ENGINEERING

EED 110: ENGINEERING DRAWING II

DATE:

TIME:

INSTRUCTIONS

Question **ONE** is compulsory. Answer ANY other **TWO** questions from this Paper. All dimensions are in millimeters (mm)

1.
 - a) Using sketches, show *three* ways of dimensioning a circle. (6 marks)
 - b) Draw figure 1 in first angle orthographic projection.
Indicate the angle of projection (12 marks)
 - c) Draw figure 2 below in isometric projection taking corner Y as the lowest point. (12 marks)
2. Figure 3 shows the front and end elevation of a journal.
Draw:
 - a) The isometric view to show the journal with the least hidden detail
 - b) The oblique drawing to show the journal with the least hidden detail (20 marks)
3.
 - a) Figure 4 shows the right cone cut obliquely and vertically. Copy the view and
 - i) Complete the plan
 - ii) Draw the surface development of the cone (12 marks)
 - b) Figure 5 shows the crank BD which rotates about a fixed centre D(It cannot alter its length).Draw the locus of point C when the crank BD makes one complete revolution (8marks)

4. a) Construct a triangle PQR, given the perimeter is 135mm and the vertical height is 65mm. State the name of the triangle (5 marks)
- b) Use figure_ to draw: a) i) The plan in section
ii) An elevation in the direction of the arrow D
iii) The development of the frustum and the true shape of the cut surface (15 marks)
5. a) Figure 6 shows the outline of three pulley wheels connected by a taught belt. Draw the figure FULL SIZE showing clearly the construction for obtaining the points of contact of the belt and the pulleys (10 marks)
- b) Copy figure 7 below and dimension it (10 marks)