



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)

University Examinations for 2015/2016

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING

**SECOND SEMESTER EXAMINATION FOR DIPLOMA IN MECHANICAL
ENGINEERING**

ENGINEERING DRAWING II

DATE: 2/8/2016

TIME: 8::30 – 10:30 AM

INSTRUCTIONS:

This paper contain five questions, answer question 1 and any other two question from section B.

SECTION A

1. Draw in 1st angle the projections of figure (1.0) (30 marks)

SECTION B

2. a) Draw an ellipse using concentric circle method, major axis (AB) of length 120 mm and minor axis (CD) of length 70 mm. (10 marks)
- b) Draw a hyperbola using the tangent method with line AB and BC of equal length 120 mm and angle ABC 45 degrees. (10 marks)
3. Draw in third angle projections of figure (2.0) (20 marks)
4. Draw the development of truncated right circular cone (figure 3.0) with the following dimensions;
- i. Base diameter 100mm
 - ii. Right short diagonal 40 mm

iii. Left long diagonal 60 mm

iv. Vertical original cone height 100 mm

(20 marks)

5. Draw the (figure 4.0) with dimensions of;

i. Base diameter 80 mm

ii. Long height 100 mm

iii. Short side height 40 mm

show the development and true shape of section of the frustrum.

(20 marks)

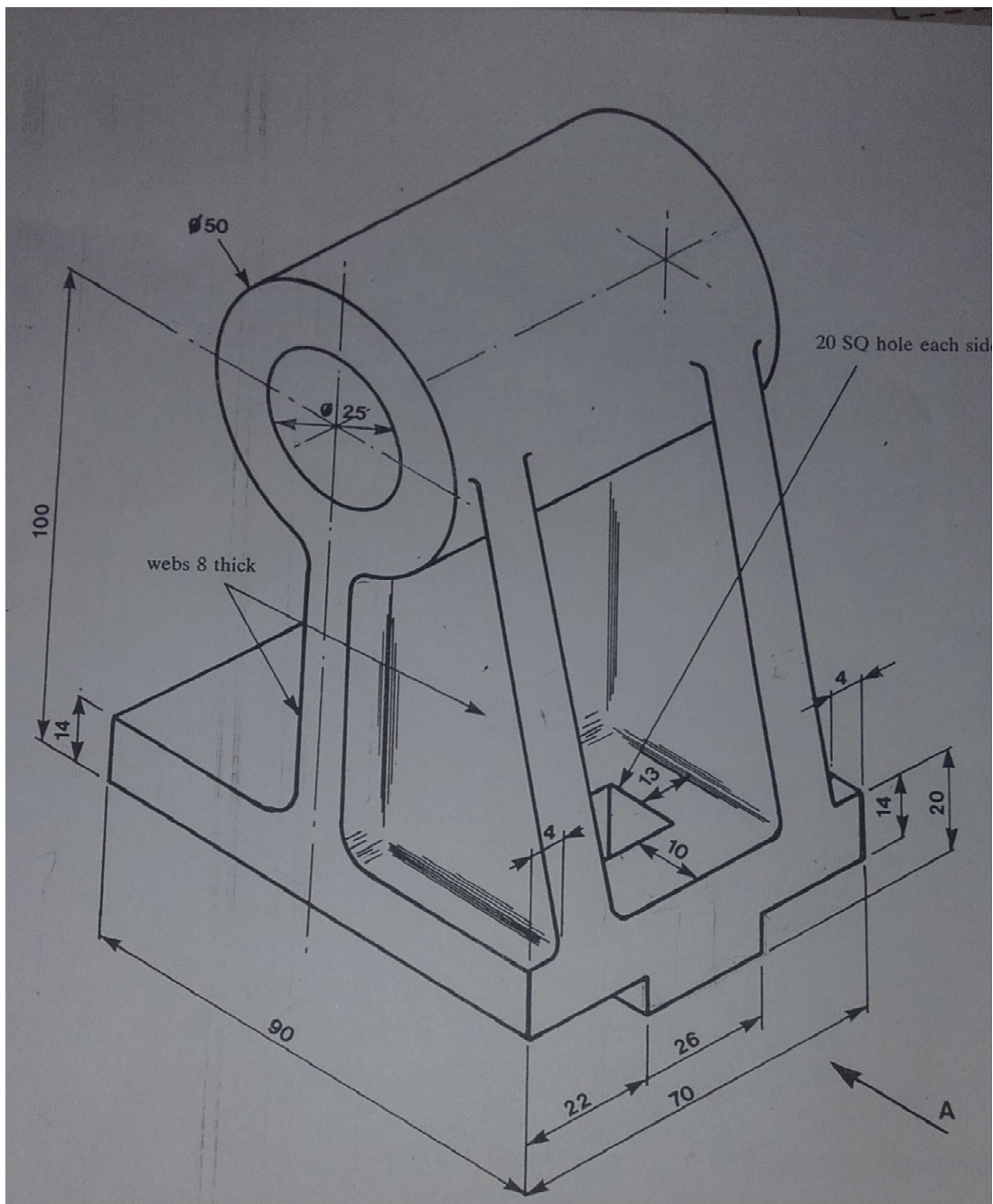


Figure 1.0

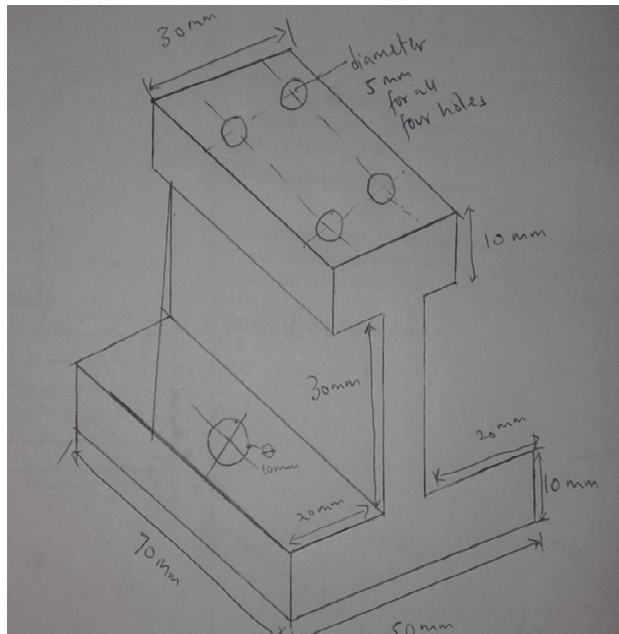


Figure 2.0

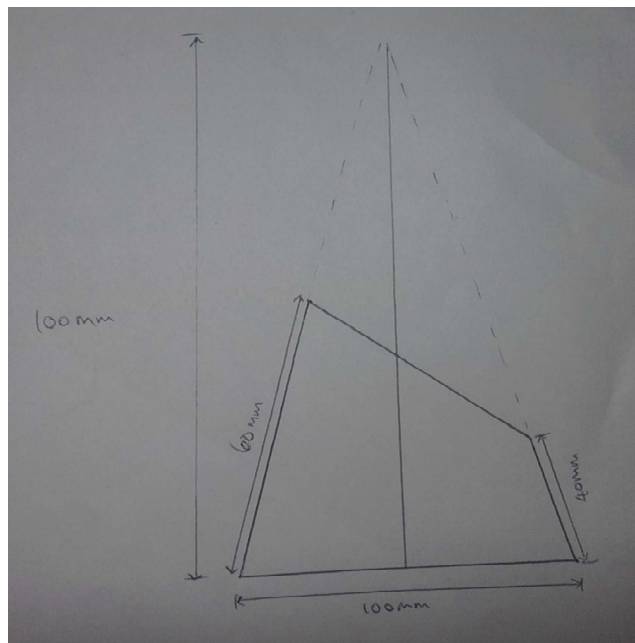


Figure 3.0

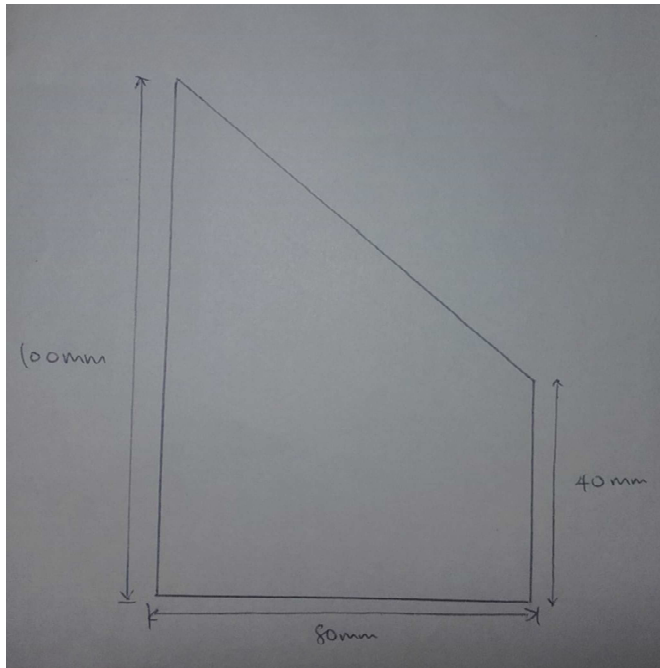


Figure 4.0