



MACHAKOS UNIVERSITY

University Examinations for 2020/2021

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

SECOND YEAR SECOND TERM EXAMINATION FOR

DIPLOMA IN ELECTRICAL POWER/TECOMUNICATION ENGINEERING

2601,2602/104/D: ENGINEERING DRAWING.

DATE: 8/9/2021

TIME: 8:30 – 11:30 AM

INSTRUCTIONS:

ANSWER ALL THE QUESTION

1. Shown in figure 1 is a link mechanism ABCD. Crank AB is allowed to rotate about A, Link CD is allowed to turn about D while B and C are pin joints. Draw the locus of point P located midway of link BC. (20 marks)
2. Draw a hyperbola with an eccentricity of $\frac{6}{4}$ and a Directrix to Focus distance of 30 mm. Continue the curve to suitable distance either side of the central axis. (20 marks)
3. Draw the isometric block shown in figure 2 and dimension it appropriately. (20 marks)
4. Draw a parabola with a Directrix to focus distance of 40 mm. (20 marks)
5. Figure 3 shows an isometric view of a bearing bracket. Draw in first angle projection the following views,
 - (a) A Front Elevation in the direction of arrow F.E..
 - (b) A Plan.
 - (c) An End Elevation in the direction of arrow E.E. (20 marks)