



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING

FIRST YEAR SECOND SEMESTER EXAMINATION FOR

CERTIFICATE IN MECHANICAL ENGINEERING

1503/104 - TECHNICAL DRAWING

DATE: 16/12/2020

TIME: 8:30 – 11:30 AM

INSTRUCTIONS TO CANDIDATES

Answer ALL the FIVE questions.

1. Figure 2 shows an isometric block. Draw the following views in First Angle projection:-
 - a) A front elevation in the direction of arrow FE.
 - b) An end elevation in the direction of arrow EE.
 - c) A plan. (20 marks)
2. Shown in figure 1 is pictorial view of a machine block. Draw it in isometric projection. (20 marks)
3. Figure 5 shows incomplete views of the intersection between a pyramid and a prism. Copy the Views and :-
 - a) Complete the front view.
 - b) Complete the end elevation.
 - c) complete the plan.
 - d) Draw the surface development of the prism. (20 marks)
4. Figure 3 shows a cone truncated by a plane x-x. Draw:-
 - a) The plan.
 - b) The end elevation
 - c) The true shape of the cut. (20 marks)
5. A square based pyramid is truncated by THREE planes as shown in figure 4. Draw:-
 - a) The true shapes of the cuts.
 - b) The surface development of the frustrum. (20 marks)