MURANG'A COLLEGE OF TECHNOLOGY
ELECTRICAL DEPARTMENT
CLASS: EE/P/11C
TECHNICAL DRAWING M0CK EXAM
MAY- JULY 2O12 TERM
DATE: 15TH JUNE 2012
TIME: 3 HOURS

INSTRUCTIONS

ATTEMPT ***ALL*** QUESTIONS IN THIS EXAM PAPER

Q1. MR. Arap Too has invented very attractive bulbs shapes. Which are selling very clearly in the Western Countries. The glasses of the bulbs are elliptical in shape. If the employees of Mr. Arap Too use rectangular (radial) method to construct the bulbs, using a major and minor axis to be 120mm by 70mm respectively," Draw the shape of a single elliptical bulb (20 marks)

Q2. The Principal section of the bowl of an aerial of radio telescope is parabola. The bowl has a maximum diameter of 500mm and the focus of the parabola is 100mm from its vertex. Draw the parabola to a scale of 1: 25 and insert on your drawing a normal and tangent at a point 200mm from the axis of the parabola.

(20 marks)

Q3. Figure 1 shows a pictorial view of a machined component. Draw full size, in first angle projection, the following views

(a) A front elevation in the direction of arrow X

(b) An end elevation in the direction of arrow Y

(c) A Plan

Show six leading dimensions. (20 marks)

Q4. Construct the profile in figure 2 and clearly show all the centres of radii. 20 marks)

Q5. Figure 3 is the frustrum of a right cone. Draw this elevation, a plan, and end elevation viewed in the direction of arrow P. Draw the true shape of the face AB. (20 marks)