



MURANG'A UNIVERSITY COLLEGE

(A Constituent College of Jomo Kenyatta University of Agriculture & Technology)

SCHOOL OF ENGINEERING AND TECHNOLOGY

MECHANICAL ENGINEERING DEPARTMENT

ME/P/14DS DIPLOMA IN PRODUCTION ENGINEERING
COMPUTER-AIDED DRAWING COURSE CODE: SEM 1209
END OF SEMESTER TWO (YEAR TWO) EXAMINATION

DATE: 14 DECEMBER 2015

TIME: 2 HOURS

Instructions to the candidate:

- I. This examination is comprised of ONE **compulsory** question.
- II. The maximum marks are as indicated.

Question 1 (Compulsory)

Figure 1 shows details of a ROCKING ARM. Draw the following views, in First Angle projection, of the complete assembly:

- a) A sectional front elevation on cutting plane XY in which the arm is resting against the stop Q. Include in your view only the dimensions shown in the front elevation of the base. Show all hidden details. **(40 marks)**
- b) A sectional plan view on cutting plane BC.
Do not show any hidden details or dimensions in this view. **(30 marks)**

Important Settings:

- a. Limits: 400X300 units
- b. Units should be millimeters. Set the precision at 0.
- c. Arrowhead lengths and text heights in dimensioning should be 4mm.
- d. The layers to be created are as follows:
 - i. Outlines (white)
 - ii. Hidden Details (yellow)
 - iii. Center Lines (cyan)
 - iv. Dimensions (green)
 - v. Hatching (magenta)

You are expected to choose an appropriate linetype for each layer.

Figure 1

