



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

DATE: 9/8/2016

TIME: 2:00 – 4:00 PM

INSTRUCTIONS:

Attempt a total of **THREE** questions by doing question 1 (COMPULSORY) in section A and any **TWO** in section B.

You need the following for this examination;

- Drawing instruments
- Drawing paper(s)

SECTION A (COMPULSORY)

1. a) Construct the template shown in figure 1(a) and show all your construction work. (10 marks)
- b) Construct the diameter of a circle whose circumference is shown in figure 1 (b). (10 marks)
- c) Construct a SEVEN (7) sided plane figure given that one of its sides is 25 mm. (10 marks)

SECTION B (Answer any TWO questions from this section).

2. Construct the isometric block shown in figure 2. (20 marks)
3. Draw the wing nut shown in figure 3. (20 marks)
4. Construct the circumference of a circle whose diameter 50 mm. (20 marks)
5. Construct the locking plate shown in figure 4. (20 marks)