



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

AUTOCAD - ELECTRICAL & ELECTRONICS.

DATE: 3/8/2016

TIME: 2:00 – 4:00 PM

INSTRUCTIONS:

Answer question 1 (compulsory) FROM SECTION A and any TWO questions from section B.

SECTION A.(Compulsory)

1. a) List at least SIX advantages of using CAD over conventional drafting method. (6 marks)
- b) An elevation of a bracket is shown in figure 1. Draft it with AutCAD and:-
 - Dimension it fully.
 - Insert its name “BRACKET” using New Times Roman font style.
 - Insert your NAME, REGISTRATION NUMBER and CLASS. (24 marks)

SECTION B

2. a) With the aid of a sketch, illustrate a CAD station (system). (10 marks)
- b) Write the procedure of setting paper size (329x301). (5 marks)

- c) Explain the procedure of loading an AutoCAD screen. (5 marks)
- 3. a) Explain THREE methods of invoking commands in AutoCAD. (9 marks)
- b) Explain THREE methods of drawing lines in AutoCAD. (9 marks)
- c) Explain the purpose of the “TRIM” command. (2 marks)
- 4. a) Explain the procedure of loading a “CENTRE LINE” on an autoCAD screen. (9 marks)
- b) Write the procedure of changing the color of the AutoCAD screen. (9 marks)
- c) Explain the purpose of the “OFFSET” command. (2 marks)
- 5. Figure 2 shows a template, draw it with AutoCAD and dimension it fully. (20 marks)