



# 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

DATE: 5/8/2016

TIME: 8:30 – 10:30 AM

---

#### **INSTRUCTIONS:**

- Answer question 1 (compulsory) FROM SECTION A and any TWO questions from section B.
- You need a computer installed with AutoCAD.
- You need a computer a printer with printing papers.
- You need an external storage device.

#### **SECTION A. (Compulsory)**

1.
  - a) Outline the procedure of setting the “ISO PLANE” in AutoCAD.
  - b) Explain the procedure of drawing an isometric circle.
  - c) Using AutoCAD, draft the isometric block shown in figure 1. (30 marks)

#### **SECTION B(ANSWER ANY TWO QUESTIONS FROM THIS SECTION).**

2. Figure 2 shows an isometric drawing of a machine bracket. Draw and dimension it fully using AutoCAD. (20 marks)
3. Draw the block shown in figure 3 and fully dimension it using AutoCAD. (20 marks)
4. Use 3D modeling to draft the figure shown in figure 4. (20 marks)
5. Draft the machine block shown in figure 5 using AutoCAD. (20 marks)