



# MACHAKOS UNIVERSITY

University Examinations 2016/2017

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING

THIRD YEAR FIRST SEMESTER EXAMINATION FOR DIPLOMA IN ELECTRICAL  
AND ELECTRONICS ENGINEERING

AUTOCAD

DATE: 24/7/2017

TIME: 8:30 – 10:30 AM

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## INSTRUCTIONS

Answer all questions in Section A and choose any other TWO in Section B

-You need a computer installed with an appropriate CAD software

-An answer booklet

### SECTION A (COMPULSORY)

1. a) State SIX advantages that CAD has over the conventional drafting method. (12 marks)
- b) Explain the meaning of the following commands:-
  - i Erase
  - ii Mirror
  - iii Offset
  - iv Array (12 marks)
- c) State TWO purposes of the command line. (6 marks)

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

2. a) With the aid of a sketch, explain the “CAD station” (10 marks)
- b) Write the procedure of setting paper size (1105 , 801) (5 marks)
- c) State the purpose of the MOVE command, (5 marks)

3.
  - a) Explain THREE method of invoking commands in AutoCAD (9 marks)
  - b) Explain THREE methods of drawing lines in AutoCAD. (9 marks)
  - c) Explain the purpose of the COMMAND window. (2 marks)
4.
  - a) Explain the procedure of loading a CENTRE LINE on an AutoCAD screen. (6 marks)
  - b) State the procedure of changing the AutoCAD screen background color.(6 marks)
  - c) Explain the function of the OFFSET command. (4 marks)
  - d) Explain the function of the ARRAY command. (4 marks)
5. Write the procedure of executing the following :-
  - a) FILLET command. (10 marks)
  - b) CIRCLE command (10 marks)