



MACHAKOS UNIVERSITY

University Examinations 2016/2017

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING

THIRD YEAR SECOND SEMESTER EXAMINATION FOR

DIPLOMA IN MECHANICAL ENGINEERING

DIPLOMA IN ELECTRICAL ENGINEERING

AUTOCAD

DATE: 6/6/2017

TIME: 8.30-10.30 AM

INSTRUCTIONS

Answer Question One and Any Other Two Questions

-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)