



MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING

SECOND YEAR SECOND SEMESTER EXAMINATION FOR

DIPLOMA IN MECHANICAL ENGINEERING

AutoCAD I

DATE: 7/5/2019

TIME: 8.30-10.30 AM

INSTRUCTIONS:

Answer Question One (Compulsory) and Any Other Two Questions

QUESTION ONE (30 MARKS)

- 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)

QUESTION TWO (20 MARKS)

- 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)

QUESTION THREE (20 MARKS)

- 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)

QUESTION FOUR (20 MARKS)

- 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)

QUESTION FIVE (20 MARKS)

Write the procedure of executing the following:-

- a) FILLET command. (10 marks)
- b) CIRCLE command (10 marks)