MACHAKOS UNIVERSITY

University Examinations 2017/2018

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING

SECOND YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN

MECHANICAL ENGINEERING

AutoCAD I

DATE: 20/12/2017   **TIME: 8.30-10.30 AM**

INSTRUCTIONS

This paper consists of *FIVE* questions

Answer question *ONE* (compulsory) and any other *TWO* questions

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)

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)