



MACHAKOS UNIVERSITY

University Examinations for 2020/2021

**SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
THIRD YEAR FIRST SEMESTER EXAMINATION FOR
DIPLOMA IN ELECTRICAL AND ELECTRONICS**

COMPUTER AIDED DRAWING (AUTOCAD)

DATE: 12/8/2021

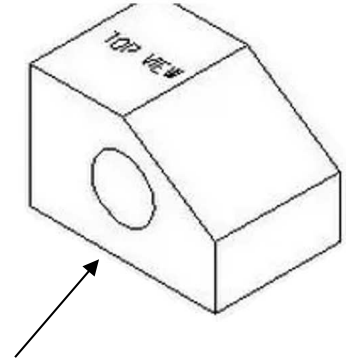
TIME: 2:00 – 4:00 PM

INSTRUCTIONS:

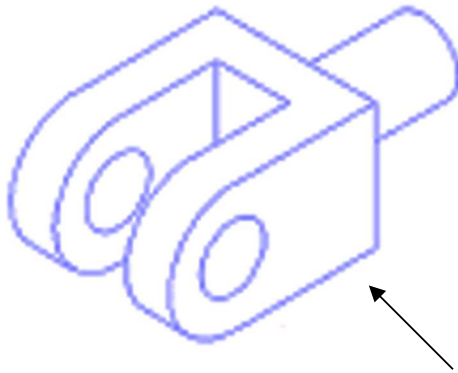
Answer ALL the questions

1. a) Illustrate five types of lines used in AutoCAD. (10 Marks)
b) Explain Five benefits of AutoCAD application software (10 Marks)
2. a) With the aid of sketches differentiate between the following;
i) Cartesian co-ordinates
ii) Polar co- ordinates (8 Marks)
b) Explain the following drawing aids in CAD
i) Object snap tracking;
ii) Orthomode;
iii) Object snap;
iv) Polar tracking and polar snap. (12 Marks)
3. Sketch the orthographic views for (a) in First angle and (b) in Third Angle of the isometric blocks shown taking the arrow direction as the front view. (20 Marks)

(a)



(b)



4. Describe FOUR aspects that entail each of the following in AutoCAD

- a) Match properties;
- b) Mtext;
- c) Layers;
- d) Dimension;
- e) Hatch.

(20 Marks)

5. Describe the AutoCAD commands and functions necessary to produce the drawing below as indicated.

(20Marks)

