



TECHNICAL UNIVERSITY OF MOMBASA

**Faculty of Engineering &
Technology in Conjunction with
Kenya Institute of Highways and
Building Technology (KIHBT)**

DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING

HIGHER DIPLOMA IN ELECTRICAL & ELECTRONIC ENGINEERING

EME 3102: AUTOCAD

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: AUGUST 2014

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions in **THREE** sections **A B** and **C**

Answer question **ONE** in section **A**, **ONE** question in section **B** and **ONE** question in section **C**

Maximum marks for each part of a question are as shown
This paper consists of **FOUR** printed pages

SECTION A (Compulsory)

Question One

a) (I) Explain the following terms as used in AutoCad:

- (i) Extrude
- (ii) Primitive
- (iii) World Coordinate System
- (iv) Polyline

(II) Explain the functions of the loft command. **(8 marks)**

b) (i) Distinguish between a vector and a mirror.

(ii) Use an example to explain how to create an attribute. **(6 marks)**

c) Use a diagram to explain how to join primitives in 3D forms. **(6 marks)**

Section B – Answer only ONE question from this section.

Question Two

For the circuit diagram of figure Q2 draw the circuit in 2D. **(20 marks)**

Question Three

Draw in 2d the orthographic views of figure Q3 **(20 marks)**

Section C – Answer only ONE question from this section.

Question Four

Draw the model of figure Q4 in 3D **(20 marks)**

Question Five

Views of a machine block are shown in figure Q5. Draw the block in 3D **(20 marks)**