THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

HIGHER DIPLOMA IN ELECTRICAL & ELECTRONIC ENGINEERING

EEE 3162: AUTOCAD

END OF SEMESTER EXAMINATION

SERIES: APRIL 2012

TIME: 2 HOURS

<u>**Instructions to Candidates:**</u>

You should have the following for this examination
  - *Answer booklet*
This paper consists of **FIVE** questions in **TWO** sections **A** & **B**
Answer question **ONE (COMPULSORY)** plus any other **TWO** questions
This paper consists of **TWO** printed pages

SECTION A (compulsory)

Question 1

a) State **FIVE** merits of designing and drawing with AUTOCAD over other methods (5 marks)

b) List any **FOUR** snap modes (4 marks)

c) Describe the use of the following AUTOCAD commands
   (i)   Polygon
   (ii)   Cylinder
   (iii)   Colour Control
   (iv)   Multiline text
   (v)   Subtract (5 marks)

d) Explain any **THREE** features of AUTOCAD (6 marks)

e) On which AUTOCAD toolbars are the following command icons obtained
   (i)   Linear
   (ii)   Offset
   (iii)   Line
   (iv)   Design center
   (v)   3D-Orbit (5 marks)

f) List any FIVE de-merits of AUTOCAD over other methods of drawing and design (5 marks)

SECTION B (2D – DRAWING)

Question 2

Reproduce the circuit Fig. Q2 using AUTOCAD (20 marks)

Question 3

Reproduce the circuit Fig. Q3 using AUTOCAD (20 marks)

SECTION C (3D – DRAWING)

Question 4

Reproduce the simple 3D model figure Q4 using AUTOCAD (20 marks)

Question 5

Reproduce the simple 3D model Fig. Q5 using AUTOCAD (20 marks)