



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

DIPLOMA IN TECHNOLOGY
ELECTRICAL POWER ENGINEERING (DEPE 2)

ENGINEERING DRAWING & DESIGN II (AUTOCAD)

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 3 HOURS

Instructions to Candidates:

You should have the following for this examination

- *An answer booklet for SECTION A*
- *A computer with AUTOCAD installed for SECTION B and C*

Answer question **ONE** from **SECTION A (COMPULSORY)**, any other **ONE** question from **SECTION C**

This paper consists of **TWO** printed pages

SECTION A

Question 1 (Compulsory)

- 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 (5 marks)
- i) Polygon
 - ii) Cylinder
 - iii) Colour control
 - iv) Multiline text
 - v) Subtract
- d) Explain any **THREE** features of AUTOCAD (6 marks)
- e) On which AUTOCAD toolbars are the following command icons obtained. (5 marks)
- i) Linear
 - ii) Offset
 - iii) Line
 - iv) Design center
 - v) 3D – Orbit
- f) List any **FIVE** demerits 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 Fig. Q4 using AUTOCAD (20 marks)

Question 5

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

