



# 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 TECHNOLOGY  
ELECTRICAL ENGINEERING

**ENGINEERING DRAWING & DESIGN I (AUTOCAD)**

SEMESTER EXAMINATIONS

**SERIES:** AUGUST/SEPTEMBER 2011

**TIME:** 2 HOURS

## **Instructions to Candidates:**

You should have the following for this examination

- *Answer booklet*
- *Computer with AUTOCAD installed*

Answer Question **ONE (COMPULSORY)** in **section A** and any other **ONE** question from **Section B** and **ONE** question in **section C**

This paper consists of **TWO** printed pages

**SECTION A (compulsory)**

**Question 1**

- a) State any **FIVE** advantages of drafting using AUTOCAD (5 marks)
- b) Describe the use of the following AUTOCAD commands
- (i) Spline
  - (ii) Move
  - (iii) Mirror
  - (iv) Linear
  - (v) Multiline text (5 marks)
- c) Describe any **THREE** features of AUTOCAD (6 marks)
- d) On which AUTOCAD toolbar would you find the following 3-D modeling commands
- i) 3-D orbit
  - ii) Cone
  - iii) Isometric view
  - iv) Subtract
  - v) Extrude (5 marks)
- e) State any **FOUR** object snap modes (3 marks)
- f) State any **FIVE** disadvantages of using AUTOCAD (5 marks)

**SECTION B (Attempt any ONE question)**

**Question 2**

Reproduce the Fig Q2 using AUTOCAD (20 marks)

**Question 3**

Reproduce the Fig Q3 using AUTOCAD (20 marks)

**SECTION C (Attempt any ONE question)**

**Question 4**

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

**Question 5**

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