



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

DIPLOMA IN ARCHITECTURE (DA 10B)

EBC 2307: CAD I

END OF SEMESTER EXAMINATION

SERIES: AUGUST 2012

TIME: 3 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*
- *Laptop/Desktop Computer*

This paper consists of **FIVE** questions in two sections I & II.

Answer question **ONE (Compulsory)** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

Create a folder on the Desktop with your **FULL NAMES**. Save your answer in AutoCAD using your **STUDENT NUMBER**.

SECTION I (Compulsory)

Question One (30 marks)

- a) Define the terms below as used in AutoCAD. **(1 mark each)**
 - i) Polar co-ordinate
 - ii) Snap mode
 - iii) Line weight-setting
 - iv) Tool palletes
 - v) Line type scale
 - vi) Layer colour setting
 - vii) What is a layer property manager.

- b) Describe how to fillet two connecting lines. **(6 marks)**

- c) Briefly describe how to create and save a new layer(s) **(6 marks)**

- d) Describe architectural symbols. With aid of sketches, give example of 5 **(8 marks)**

- e) Describe boundary edges. Which command is used to prompt Boundary edges. **(4 marks)**

SECTIO II (Attempt any TWO questions)

Question Two (20 marks)

Redraw the plan as shown in drawing one, include a roof plan, on it show the fall of the pitch. **(20 marks)**

Question Three (20 marks)

Draw a detailed section through X-X in drawing 2. **(20 marks)**

Question Four (20 marks)

Redraw the plan in drawing 3 using layers. Use layers details given below.

LAYER	LINE COLOUR	LINE WEIGHT	LINE TYPE
Wall	Magenta	0.35	Continuous
Doors	Cyan	0.3	By Block
Windows	Green	0.30	By Layer
Dimension s	Yellow	0.25	Continuous
Wording	Blue	0.3	Continuous

Question Five (20 marks)

Design a one-bed roomed bungalow showing a labeled dimensioned floor plan, back elevation, 2 side elevations and the roof plan. On the roof plan show the fall of the pitch. **(20 marks)**