



# THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)  
*Faculty of Engineering and Technology*

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING  
**HIGHER DIPLOMA IN BUILDING CONSTRUCTION (HDBC 11)**

EBC 3207: COMPUTER AIDED DESIGN I

**END OF SEMESTER EXAMINATION**

SERIES: DECEMBER 2011

**TIME: 3 HOURS**

## **Instructions to Candidates:**

You should have the following for this examination

- *Answer booklet*
- *Laptop/Desktop Computer*
- *Save your answer in AutoCAD using your FULL names followed by your student number.*

This paper consists of **FIVE** questions in two sections **A & B**.

Answer question **ONE (COMPULSORY)** and any other **TWO** questions.

Maximum marks for each part of a question are clearly shown

This paper consists of **FOUR** printed pages  
**SECTION A – 30 MARKS (COMPULSORY)**

### Question 1

- a) Differentiate between the following working drawings: (10 marks)
- (i) Civil drawings
  - (ii) Architectural drawings
  - (iii) Structural drawings
  - (iv) Mechanical drawings
  - (v) Electrical drawings
  - (vi) Plumbing drawings
- b) List down **FIVE** things one can do when they make a mistake while working with AutoCAD. (5 marks)
- c) Explain the use of the following buttons in the status bar. (5 marks)
- (i) SNAP
  - (ii) GRID
  - (iii) ORTHO
  - (iv) POLAR
  - (v) OSNAP
- d) Draw a well labeled section of a ground floor (10 marks)

### SECTION B - 40 MARKS (Answer any TWO questions from this section)

#### Question 2

The figure below is a site plan of a house to be built on a building plot. Design and construct the floor plan and landscaping (20 marks)

### **Question3**

The figure below is a floor of a plan three bedroomed house. Design the front elevation and the roof plan. (20 marks)

### **Question 4**

The figure below shows the dimensions of a two bedroomed house. Design and draw its floor plan and a title block showing all the relevant information (20 marks)

### **Question 5**

The figure below is a floor plan of a one bedroomed house. Design a detailed section through AA.  
(20 marks)