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 10A)
DIPLOMA IN BUILDING & CIVIL ENGINEERING (DBCE 10A)

EBC 2325: COMPUTER AIDED DESIGN II

SPECIAL/SUPPLEMENTARY EXAMINATION
SERIES: OCTOBER 2012
TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination
- *Answer Booklet*
- *A Laptop Computer/Desktop Computer*

This paper consists of **FIVE** questions.

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

Question One (COMPULSORY - 30 marks)

a) List down **FIVE** things t o do when one makes a mistake while drawing with AutoCAD.

(5 marks)

b) Explain the use of the following buttons in the status bar.
   i)   POLAR
   ii) OSNAP
   iii) GRID
   iv) SNAP
   v) MODEL
   vi) OTRACK   **(6 marks)**

c) Explain the use of the following co-ordinates systems as used in CAD.
   i)   Absolute co-ordinates
   ii) Relative co-ordinates
   iii) Polar co-ordinates   **(9 marks)**

d) Draw a fully labeled section through a strip foundation.   **(10 marks)**

Question Two (20 Marks)

Draw a section through a house and clearly show the roof and floor details.   **(20 marks)**

Question Three (20 Marks)

The drawing in FIGURE ONE is a skeleton of a 2 bedroomed bungalow. Redraw and complete the Bungalow and fully furnish it suing the design center. Include all plumbing fixtures.

       i.e.

- Wash hand basin
- Toilet pan and Cistern
- Shower or bathtub
- Kitchen sink

Question Four (20 Marks)

The figure below shows an existing Masionette in a plot in town. Design and suitably locate a 2 bedroom self contained Servants Quarter.

Question Five (20 Marks)

Using figure 2 draw the Elevation I, Elevation A and a detailed section through X – X. The elevations should be fully hatched.