TECHICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

DIPLOMA IN BUILDING & CIVIL ENGINEERING (DBC 12J)

EBC 2219: BUILDING & CIVIL ENGINEERING DRAWING & CAD

END OF SEMESTER EXAMINATION
SERIES: APRIL 2013
TIME ALLOWED: 2 HOURS

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

This paper consists of **FIVE** questions.
 Answer any **THREE** questions
Maximum marks for each part of a question are as shown
This paper consists of **THREE** printed pages

Question One

a) Define offset command. Briefly describe how to call on the offset command and explain the 6 steps of applying the command.

b) Define mirror command. Briefly describe how to call on the mirror command and explain the **SIX** steps of applying the command.   **(10 marks)**

c) Define Array Command, Briefly describe how to do a rectangular array for a 10 sided polygon.

Question Two

Shown in figure 1 is a plot of size 30m by 15m. figure 2 has the outline of a proposed residential for client A. Client A wants to site plan designed, which will consist of:

    (i)   A septic and soak pit
    (ii)   3m wide gate
    (iii)   Dog house
    (iv)   Laun at the front
    (v)   Show the flow of waste water to the septic tank
    (vi)   A swimming pool   **(20 marks)**

Question Three

Redraw the plan in drawing 1 and complete it as follows:

(i)   Dimensions
(ii)   Place windows and doors
(iii) Design a roof
(iv) Name all the rooms as they appear   **(20 marks)**

Question Four

Draw **TWO** elevations and a roof plan for drawing 2.   **(20 marks)**

Question Five

Draw a detailed section of a cuable roof.   **(20 marks)**