TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

DIPLOMA IN ARCHITECTURE
DIPLOMA IN BUILDING & CIVIL ENGINEERING

EBC 2202: BUILDING & CIVIL ENGINEERING DRAWING & CAD

SPECIAL/SUPPLEMENTARY EXAMINATION
SERIES: OCTOBER 2013
TIME ALLOWED: 2 HOURS

<u>**Instructions to Candidates:**</u>
You should have the following for this examination
- *Answer Booklet*
This paper consists of **FIVE** questions.
Answer question **ONE** 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

Figure 1 is a sketch of a 3 bedroom Bungalow. Using Archicad redraw the floor plan complete with:

(i)   Roof
(ii)   Dimensions
(iii)   Furniture
(iv)   Text (where necessary)   **(20 marks)**

Question Two

Define the Array Command. Describe how to do a rectangular array for a 10 sided polygon.
                                                                             (20 marks)

Question Three

Using line illustration, describe how to:

a) Extend one line from another
b) Trim intersecting lines
c) Draw tangents using OSNap tangent
d) Fillet @radius 40
e) Mirror an object to the side of another   **(20 marks)**

Question Four

Figure 2 shows the floors roof plans of a massionette. Draw elevations 01, elevation 03 and a detailed section through the stair.   **(20 marks)**

Question Five

Draw and design a detailed section through a roof   **(20 marks)**