MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)
University Examinations for 2014/2015

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**FIRST SEMESTER EXAMINATION FOR DIPLOMA IN ELECTRICAL
ENGINEERING (POWER OPTION)**

2601/203: ENGINEERING DRAWING AND CIRCUIT ANALYSIS (AUTO CAD

DATE: 23/3/2015   **TIME: 8:30 – 10:30 am**

Instructions

   Attempt all questions

1. (a) The figure 1 alongside shows the floor plan of a two bedroom house

   (i) Sketch the traverse using appropriate tools and the following settings.

   (i) Units in millimeters

   (ii) Accuracy/precision 0

   (iii) Line weights 0.4

   (iv) Line colour on which to draw the drawing cian

   (v) Text height = 150 (both letters and numbers)

   (vi) Text style –verdama   (20 marks)

2. (a) List down all the commands used to design the traverse below the drawing under the heading "ledged"   (4 marks)

   (b) (i) Insert the electrical wiring circuit into the house plan in question (i) detailing all the necessary switch symbols

   NB: The electrical detailed diagram to be separate from the first drawing.

   (14 marks)

   (ii) List all the electrical symbols use under ledged.   (2 marks)

3. (a) Set up the Autocad according to the following guidelines

    (i)   Line weight = 0.4

    (ii)   Text style = verdana

    (iii)   Text height = 4

    (iv)   Text colour = blue   (6 marks)

(b) Draw the traverse in fig 1. and insert the dimensions accordingly.   (14 marks)

4. Figure 3 shows a plan of a machine spare parts. Draw the figure and insert the dimensions accordingly. (20 marks)

Use the following settings
(i)   Line weight   -   0.3
(ii)   Text style   -   Papyrus
(iii)   Text colour   -   Green
(iv)   Dimension line weight – 0.09
(v)   Extension line weight – 0.09

5. The figure 4 alongside shows the plan of gasket. Draw the figure and insert all the dimension. (20 marks)

Use the following settings
(i)   Text height - 0.4
(ii)   Text colour – red
(iii)   Text style - verdance