TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING

DIPLOMA IN ELECTRICAL & ELECTRONIC ENGINEERING/POWER ENGINEERING (DEEE 1/DEPE I)

EME 2105: ENGINEERING DRAWING I

END OF SEMESTER EXAMINATION
SERIES: DECEMBER 2014
TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination
- *Answer Booklet*

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 **TWO** printed pages

Question One (Compulsory)

a) Construct a Lombus of sides 60mm   **(3 marks)**

b) Construct an octagon within a circle of radius 30mm   **(3 marks)**

c) Construct a tangent from a point P, 30mm from circle of diameter 50mm **(3 marks)**

d) Construct an internal tangent to two circles of an equal radii, R = 50mm and r = 35mm with centre distance of 100mm.   **(9 marks)**

Question Two

Figure 1 shows a mild steel bracket, draw full size in 1st angle projection.

a) Front elevation in the direction of Arrow A
b) End elevation in the direction of arrow B
c) Plan in the direction of arrow   **(20 marks)**

Question Three

Figure 2, shows two views of a Block in an angle of projection.

a) State which angle of projection used.
b) Draw full size the isometric view of the block   **(20 marks)**

Question Four

Draw free hand, pictorial (isometric or oblique) sketches of the following items:

(i) Horn speaker
(ii) Combination pliers
(iii)   Long nose priers
(iv) Side cutler   **(20 marks)**

Question Five

a) Draw electrical symbols for the following items:
    (i) Direct current unsteady voltage   **(2 marks)**
    (ii) Direct current unsteady voltage   **(2 marks)**
    (iii)   Variable resistor   **(2 marks)**
    (iv) Fixed Resistor   **(2 marks)**

b) Draw conventional symbols for:
    (i) First angle projection   **(2 marks)**
    (ii) 3rd angle projection   **(2 marks)**

c) Differentiate between isometric and oblique drawing.   **(6 marks)**