TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering and Technology

DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING

CERTIFICATE IN TECHNOLOGY

ELECTRICAL AND ELECTRONICS ENGINEERING (CEEE2)

EME 1151

ENGINEERING DRAWING II

END OF SEMESTER EXAMINATIONS

SERIES: DECEMBER 2015

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

1) You should have the following for this examination;

- Answer booklet

- Non-programmable calculator

    2) Answer any THREE Questions

QUESTION ONE

    a) Draw a tangent and normal line to a Cycloid given diameter of a Circle to be 60mm   10 Marks

    b) From a Circle of Diameter 30mm draw an Archimedean Spiral   10 Marks

QUESTION TWO

From the V- Block shown Figure 1 , draw the following in 1st angle Projection

    a) A Front Elevation in the direction of arrow C

    b) An End Elevation in direction A.

    c) A Plan.   20 Marks

QUESTION THREE

Figure 2 shows Three views of a Block in an angle of Projection

    a) State which angle of Projection used.

    b) Draw fullsize the Isometric view of the Block with X as the lowest point.   20 Marks

QUESTION FOUR

Draw Ellipses using the following methods

    1) Trammel Method

    2) Rectangular Method   20 Marks

QUESTION FIVE

    a) Draw free hand sketch of a Combination Pliers   10 Marks

    b) Construct an External tangent to two Circles of unequal radii. R = 50mm,and r =35mm with centre distance of 100mm   10 Marks