**MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**P.O. Box 972-60200 – Meru-Kenya.**

**Tel: 020-2069349, 061-2309217. 064-30320 Cell phone: +254 712524293, +254 789151411**

**Fax: 064-30321**

**Website:** [**www.must.ac.ke**](http://www.must.ac.ke) **Email:** **info@must.ac.ke**

**University Examinations 2014/2015**

SECOND YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR CERTIFICATE IN ELECTRICAL INSTALLATION

**EEE 0105: TECHNICAL DRAWING II**

 **DATE: OCTOBER 2015 TIME: 3 HOURS**

**INSTRUCTIONS:** *Answer question* ***one*** *and any other* ***two*** *questions*

**QUESTION ONE (30 MARKS)**

Figure 1 shows an isometric block of a bearing journal.

Draw in first angle projection:

1. A F.E in the direction of the arrow. (7 Marks)
2. An E.E (6 Marks)
3. A plan (7 Marks)
4. A projection symbol (2 Marks)
5. A title block. (5 Marks)
6. Six important dimensions. (3 Marks)

**QUESTION TWO (15 MARKS)**

Make FREE-HAND sketches of any three of the following:

1. A T-square
2. A cross-pein hammer
3. A soft faced mallet
4. A scriber
5. An open-ended spanner
6. An engineer’s square (15 Marks)

**QUESTION THREE (15 MARKS)**

Figure 2 shows the plan of F.E of a lamina in 3rd angle projection.

Required:

1. The true shape of the lamina indicating the true lengths of the sides of the true shape. (15 Marks)

**QUESTION FOUR (15 MARKS)**

Two views of intersecting pipes are shown, Figure 3.

Required:

1. The curve of intersection.
2. The development of the smaller pipe. (15 Marks)