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University Examinations 2013/2014

FIRST YEAR, SECOND SEMESTER EXAMINATION FOR CERTIFICATE IN
ELECTRICAL INSTALLATION

EMC 0105: TECHNICAL DRAWING II

DATE: APRIL 2014

TIME: 3 HOURS

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

QUESTION ONE – (30 MARKS)

The drawing in figure 1 shows a bracket drawn in isometric projection. Do not copy this but draw to a scale of full size the following views

- (a) Front elevation as indicated by the arrow
- (b) An end elevation viewed from the left hand side of the front elevation
- (c) A plan in projection with the front elevation.

Do not show hidden details. Add at least four dimensions. Print a title block and insert a title a scale and projection used. (30 Marks)

QUESTION TWO – (15 MARKS)

Fig 2 shows a layout drawn in isometric projection, draw it in oblique projection. (15 Marks)

QUESTION THREE – (15 MARKS)

Make a neat free hand isometric sketches of any three of the following hand tools. (15 Marks)

- (a) Screw driver
- (b) An open ended spanner

- (c) A ball peen hammer
- (d) Tenon saw

QUESTION FOUR – (15 MARKS)

Two elevations of a wheel stop are shown in Fig 3. Draw full size

- (a) Given elevations
- (b) Plan looking in the direction of arrow 2. (15 Marks)

QUESTION FIVE – (15 MARKS)

Fig 4 shows the incomplete front elevation and plant of two intersecting pipes. Copy the views shown and determine the curve of intersection and development of the smaller pipe.

(15 Marks)