



TECHNICAL UNIVERISTRY OF MOMBASA

# Faculty of Engineering & Technology

DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING

CERTIFICATE IN ELECTRICAL & ELECTRONIC ENGINEERING  
(CEEE I)

EME 1101: ENGINEERIGN 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)

Figure 1 shows an iron casting. Draw to a suitable scale in 3<sup>rd</sup> angle projection:

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

### Question Two

Two views of a machine block are as shown in figure 2. Draw to the scale 1:2 an isometric projection of the block. **(20 marks)**

### Question Three

- a) Draw BS 3G3G symbols for the following:
  - (i) Indicator
  - (ii) Loud speaker
  - (iii) Bell
  - (iv) Blower
  - (v) Horn **(10 marks)**
- b) The block diagram in figure 3 represents a power supply unit. Draw the circuit diagram. **(10 marks)**

### Question Four

Draw free hand sketches of the following:

- a) Soldering sucker
- b) Flat screw driver
- c) 100w bulb
- d) Star screw driver **(20 marks)**

### Question Five

- a) Illustrate the following types of lines:
  - (i) Construction lines
  - (ii) Hidden detail lines
  - (iii) Centre lines
  - (iv) Outline **(4 marks)**
- b) Draw a line AB 100mm and divide it into 7 equal parts. **(8 marks)**
- c) Construct a regular pentagon given the length of one side as equal to 50mm **(8 marks)**

