TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering and Technology

DEPARTMENT OF MECHANICAL AND AUTOMOTIVE ENGINEERING
DIPLOMA IN MECHANICAL ENGINEERING

EME 2108
ENGINEERING DRAWING I

SPECIAL/SUPPLEMENTARY EXAMINATIONS

SERIES: MARCH, 2014

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

1.   You should have the following for this examination:
   - Answer Booklet
   - Scientific Calculator
   - Drawing Instruments

2.   This paper consists of **FIVE** Questions.
3.   Answer Question **ONE** is Compulsory.
        Answer Question **ONE** and any other **TWO** Questions.
4.   **This paper consists of SIX printed pages.**

Question ONE

A machine BRACKET is shown in Figure 1. Draw full size in first angle orthographic projection the following views:

(a)   Sectional front elevation along X – X
(b)   Plan

Include SIX major dimensions and symbol of projection.

(20 marks)

Question TWO

A template of an anchor arm is shown in Figure 1. Copy the arm showing clearly how the curve centres are obtained.   **(20 marks)**

Question THREE

Figure 3 shows the frustum of a cone. Copy the given view and draw:

(a)   Complete plan
(b)   End elevation from E
(c)   True shape
(d)   Surface development

(20 marks)

Question FOUR

Two views of a machine bracket are shown in Figure 4. Draw an OBLIQUE view of the bracket taking oblique rules into consideration.   **(20 marks)**

Question FIVE

Two views of a truncated heptagonal base pyramid are shown in Figure 5. Copy the given views and draw:

(a) Complete plan
(b) End elevation from EE
(c) True shape
(d) Surface development

(20 marks)