THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A CONSTITUENT COLLEGE OF JKUAT)

Faculty of Engineering and Technology

DEPARTMENT OF MECHANICAL AND AUTOMOTIVE ENGINEERING
Diploma in Mechanical Engineering (Production Option)
Diploma in Mechanical Engineering (Plant Option)
Mechanical Engineering (Automotive Option)
Diploma in Chemical Engineering

EME 2106
ENGINEERING DRAWING II

SPECIAL/SUPPLEMENTARY EXAMINATIONS

YEAR 1 SEMESTER II

SERIES: MARCH, 2012

TIME: 2 HOURS

<u>**Instructions to Candidates:**</u>

You should have the following for this examination:
- Drawing Paper (A2)
- Drawing Instruments
- Scientific Calculator

This paper consists of **FIVE** Questions. Answer Question **ONE**
and any other **TWO** Questions.
Maximum marks for each part of question are as shown.
This paper consists of *TWO printed pages*.

Question ONE

Figure 1 shows a bearing block. Draw, scale full size, using third angle projection, the following:

(a)   An end elevation – arrow E
(b)   A plan
(c)   A front elevation – arrow F

(30 Marks)

Question TWO

Figure 2 shows three orthographic views of a component. Draw the component in isometric projection, making corner X the lowest point.   **(20 Marks)**

Question THREE

Figure 3 shows two orthographic views of a right pyramid:

(a) Redraw the views accurately.
(b) Draw the surface development of the slanting surface.
(c) Draw true shape of the cut.

(20 Marks)

Question FOUR

Figure 4 shows two views of a support bracket. Draw in free-hand a pictorial sketch of the bracket making the face mark R to be nearest to you.   **(20 Marks)**

Question FIVE

Figure 5 shows an exhaust hood. Draw the following:

(a)   Surface development of the slanting surface start from the longest slanting side.
(b)   True shape of the cut.

(20 Marks)