THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE
(A Constituent College of Jkuat)
Faculty of Engineering and Technology DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

DIPLOMA IN CIVIL ENGINEERING
EBC 2204: ENGINEERING DRAWING II

SPECIAL/SUPPLEMENTARY EXAMINATIONS
SERIES: JUNE 2011
TIME: 2 HOURS

## Instructions to Candidates:

Answer question one and any other two questions

## Question 1 (Compulsory)

Two pipers intersect with their axes in the vertical plane as shown in Fig. 1 below. In Third Angle projection, complete the Front Elevation shown showing the curve of intersection; also project a plan and an end elevation as seen from the left of the F.E.

Fig: 1

## Question 2

A square pyramid of height 100 mm and base sides 60 mm has its top cut obliquely at $30^{\circ}$ at mid height as shown below:

## Fig 2:

In $1^{\text {st }}$ Angle Projection, draw full size, the following.
(i) A. F. E. looking along the arrow
(ii) An E. E. seen from the left of the F. E.
(iii) A plan.

## Question 3

Fig. 3 shows the elevation of a right hexagonal pyramid of base edges 40 mm and vertical height 100 mm . Draw the given elevation and the true shape of the surface contained in the section plane X - Y. Choose your own scale.

Fig. 3

## Question 4

Fig. 4 shows the incomplete elevation of two pipes intersecting at right angle, their longitudinal intersecting in the vertical plane. In third angle projection complete the front elevation showing the curve of intersection; also project a plan and an end elevation as seen from the right of the F . E.

Fig. 4

## Question 5

The top of a regular hexagonal prism has been cut obliquely at $45^{\circ}$. The prism is then titled at 30 ${ }^{\circ}$ in the F. E. If the edges of the base are each 30 mm long and the height of the prism is 100 mm long, draw full scale, and in Third Angle Projection the following:
(i) A. F. E. looking along arrow A
(ii) An E. E. looking along arrow B
(iii) A Plan

Fig. 5

